10/ 567,660

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 3	OCT 19	BEILSTEIN updated with new compounds
NEWS 4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS 5	NOV 19	WPIX enhanced with XML display format
NEWS 6	NOV 30	ICSD reloaded with enhancements
NEWS 7	DEC 04	LINPADOCDB now available on STN
NEWS 8	DEC 14	BEILSTEIN pricing structure to change
NEWS 9	DEC 17	USPATOLD added to additional database clusters
NEWS 10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS 11	DEC 17	DGENE now includes more than 10 million sequences
NEWS 12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS 13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 14	DEC 17	CA/CAplus enhanced with new custom IPC display formats
NEWS 15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS 16	JAN 02	STN pricing information for 2008 now available
NEWS 17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS 18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS 19	JAN 28	MARPAT searching enhanced
NEWS 20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS 21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS 23	FEB 08	STN Express, Version 8.3, now available
NEWS 24	FEB 20	PCI now available as a replacement to DPCI
NEWS 25	FEB 25	IFIREF reloaded with enhancements
NEWS 26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS 27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:13:29 ON 10 MAR 2008

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:13:40 ON 10 MAR 2008
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2008 HIGHEST RN 1007215-88-4
DICTIONARY FILE UPDATES: 9 MAR 2008 HIGHEST RN 1007215-88-4

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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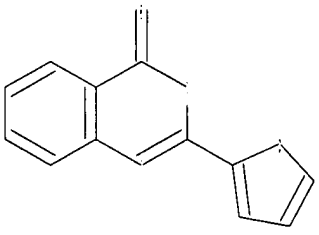
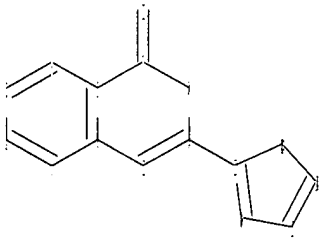
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10567660s.str





chain nodes :
11
ring nodes :
1 2 3 4 5 6 7 8 9 10 12 13 14 15 16
chain bonds :
7-11 9-12

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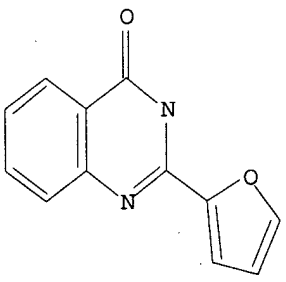
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 12-13 12-16 13-14 14-15
15-16
exact/norm bonds :
5-7 6-10 7-8 7-11 8-9 9-10
exact bonds :
9-12 12-13 12-16 13-14 14-15 15-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 12 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L1 STRUCTURE UPLOADED

=> d L1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 17:14:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 211 TO ITERATE

100.0% PROCESSED 211 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3349 TO 5091
PROJECTED ANSWERS: 56 TO 504

L2 14 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 17:14:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3702 TO ITERATE

100.0% PROCESSED 3702 ITERATIONS 205 ANSWERS

10/ 567,660

SEARCH TIME: 00.00.01

L3 205 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 178.36 178.57

FILE 'CAPLUS' ENTERED AT 17:14:24 ON 10 MAR 2008
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FILE COVERS 1907 - 10 Mar 2008 VOL 148 ISS 11
FILE LAST UPDATED: 9 Mar 2008 (20080309/ED)

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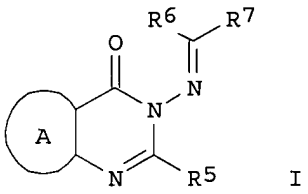
=> s l3
L4 43 L3

=> d l4 1- ibib abs hitstr
YOU HAVE REQUESTED DATA FROM 43 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:584604 CAPLUS
DOCUMENT NUMBER: 147:9944
TITLE: Preparation of condensed pyrimidines, their use as serum phosphorus level-lowering agents and phosphoric acid-transport inhibitors, and their pharmaceutical compositions
INVENTOR(S): Eto, Nobuaki; Nagao, Rika; Sakai, Teruyuki; Kato, Shinichiro
PATENT ASSIGNEE(S): Kirin Brewery Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 108pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007131532	A	20070531	JP 2001-303288	20010928
PRIORITY APPLN. INFO.:			JP 2001-303288	20010928

OTHER SOURCE(S): MARPAT 147:9944
GI



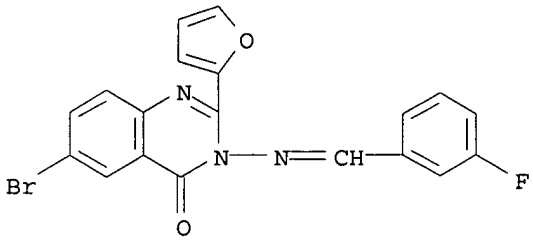
I

AB Title compds. I [A = (un)substituted 5- to 9-membered (hetero)cyclic ring; R5 = (un)substituted C1-6 alkyl(oxy), aryl(oxy), C1-6 alkylamino, arylthio, heterocyclyl, etc.; R6, R7 = H, (un)substituted C1-6 alkyl, aryl C2-6 alkenyl, C2-6 alkynyl, aryl, heterocyclyl], their pharmacol. acceptable salts, or solvates are prepared Thus, Me 2-aminobenzoate was amidated with 3,4-dimethoxybenzoyl chloride, cyclized with NH2NH2.H2O, and reacted with trans-cinnamaldehyde to give I (A = benzene residue, R5 = 3,4-dimethoxyphenyl, R6 = H, R7 = trans-PhCH:CH), which inhibited Na-dependent phosphate transport with IC50 value of 9.11 μM.

IT 937708-14-0P 937708-15-1P 937708-16-2P
937708-17-3P 937708-18-4P 937708-19-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrimidines as phosphoric acid-transport inhibitors for treatment of diseases)

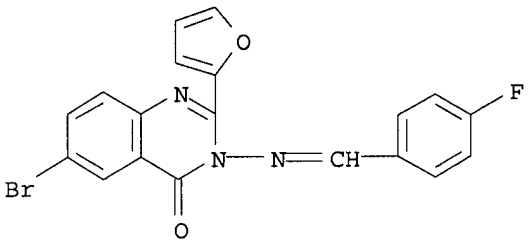
RN 937708-14-0 CAPLUS

CN 4(3H)-Quinazolinone, 6-bromo-3-[[(3-fluorophenyl)methylene]amino]-2-(2-furanyl)- (CA INDEX NAME)

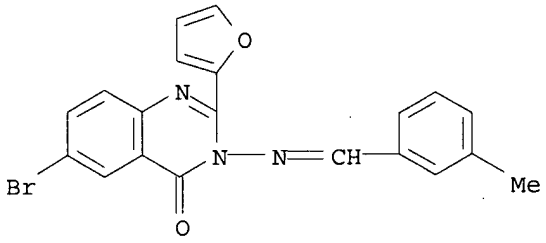


RN 937708-15-1 CAPLUS

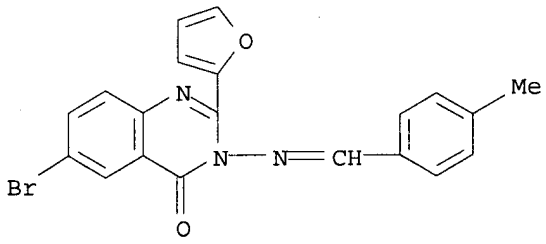
CN 4(3H)-Quinazolinone, 6-bromo-3-[[(4-fluorophenyl)methylene]amino]-2-(2-furanyl)- (CA INDEX NAME)



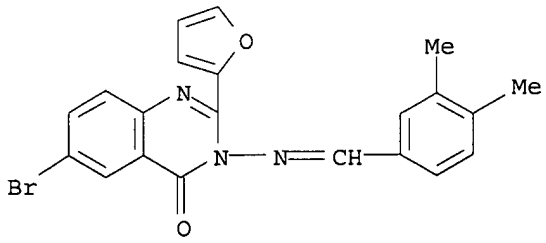
RN 937708-16-2 CAPLUS
CN 4(3H)-Quinazolinone, 6-bromo-2-(2-furanyl)-3-[[(3-methylphenyl)methylene]amino]- (CA INDEX NAME)



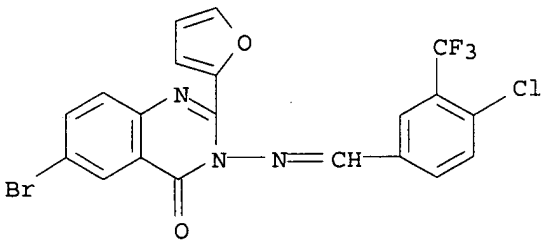
RN 937708-17-3 CAPLUS
CN 4(3H)-Quinazolinone, 6-bromo-2-(2-furanyl)-3-[[(4-methylphenyl)methylene]amino]- (CA INDEX NAME)



RN 937708-18-4 CAPLUS
CN 4(3H)-Quinazolinone, 6-bromo-3-[[(3,4-dimethylphenyl)methylene]amino]-2-(2-furanyl)- (CA INDEX NAME)



RN 937708-19-5 CAPLUS
CN 4(3H)-Quinazolinone, 6-bromo-3-[[[4-chloro-3-(trifluoromethyl)phenyl]methylene]amino]-2-(2-furanyl)- (CA INDEX NAME)

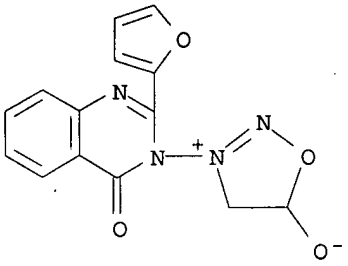


L4 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:685844 CAPLUS
DOCUMENT NUMBER: 146:358790
TITLE: Synthesis and antiviral activity of quinazolinyl sydnones
AUTHOR(S): Pandey, V. K.; Mukesh; Tandon, Meenal
CORPORATE SOURCE: Department of Chemistry, University of Lucknow, 226 007, India
SOURCE: Indian Journal of Heterocyclic Chemistry (2006), 15(4), 399-400
CODEN: IJCHEI; ISSN: 0971-1627
PUBLISHER: Prof. R. S. Varma
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:358790

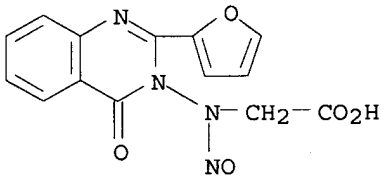
AB Anthranilic acid on reaction with an aromatic acid chloride in presence of pyridine cyclizes to 2-aryl-4-oxo-3,1-benzoxazines, which on treatment with hydrazine hydrate in dry pyridine affords 2-aryl-3-amino-4-oxo-(3H)-quinazolines. Reaction of quinazolines with Et chloroacetate in presence of sodium acetate yields 2-aryl-4-oxo-(3H)-quinazolin-3-aminoethyl acetates, which on hydrolysis furnishes 2-aryl-4-oxo-(3H)-quinazolin-3-amino-acetic acids. Reaction of 2-aryl-4-oxo-(3H)-quinazolin-3-amino-acetic acids. with sodium nitrite and conc HCl results in 2-aryl-4-oxo-(3H)-quinazolin-nitrosoaminoacetic acids. Heating the later compds. with acetic anhydride gives N-(2-aryl-4-oxo (3H) quinazolinyl) sydnones in yields varying from 30 to 50%. The sydnone compds. were screened for their antiviral activity in vitro.

IT 929878-81-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antiviral activity of quinazolinyl sydnones)

RN 929878-81-9 CAPLUS
CN 1,2,3-Oxadiazolium, 3-[2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]-4,5-dihydro-5-hydroxy-, inner salt (CA INDEX NAME)



IT 929878-74-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and antiviral activity of quinazolinyl sydnones)
RN 929878-74-0 CAPLUS
CN Glycine, N-[2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]-N-nitroso- (CA INDEX NAME)

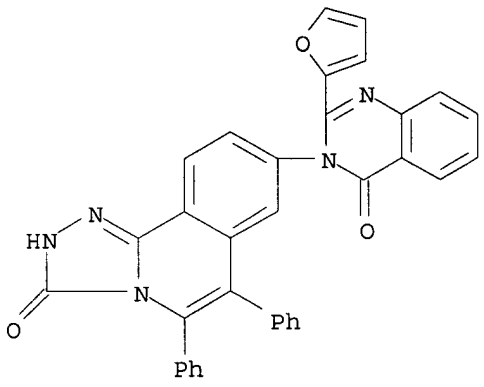


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

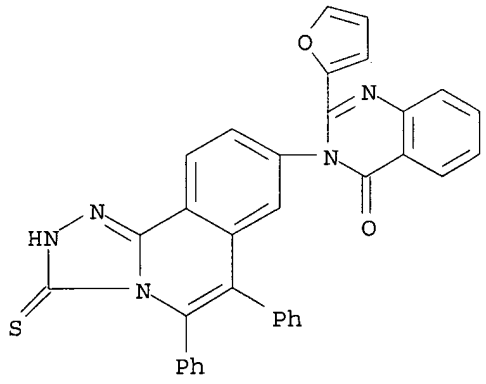
L4 ANSWER 3 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:372612 CAPLUS
DOCUMENT NUMBER: 146:7907
TITLE: Synthesis and biological activity of oxo/thionotriazoloisoquinolinyl quinazolones
AUTHOR(S): Bishnoi, Abha; Saxena, Rashmi; Srivastav, Krishna; Joshi, M. N.; Bajpai, S. K.
CORPORATE SOURCE: Department of Chemistry, Lucknow University, Lucknow, 226007, India
SOURCE: Indian Journal of Heterocyclic Chemistry (2006), 15(3), 307-308
CODEN: IJCHEI; ISSN: 0971-1627
PUBLISHER: Prof. R. S. Varma
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:7907
AB 2-Aryl-4-oxo-3,1-benzoxazines on reaction with p-aminobenzoic acid in dry pyridine resulted in 2-aryl-3-(4'-phenylcarboxylate)-4-oxo(3H)-quinazolines in excellent yields which on treatment with benzoin in PPA gave 2-aryl-3-(3',4'-isocoumarinyl)-4-oxo(3H)quinazolines in moderate yields of 50-65%. Interaction of quinazolinone derivs. with semicarbazide-hydrochloride/thiosemicarbazide in ethanol furnished 2-aryl-3-[(3'-oxo/thionotriazolo)[1,5c](3'-4'-diphenyl)isoquinolin-6-yl]-4-oxo-(3H)quinazolines in the yields (45-70%). The prepared compound were evaluated for their antiviral activity.
IT 915769-23-2P 915769-24-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)
(preparation and antiviral activity of oxo/thionotriazoloisoquinolinyl quinazolones)

RN 915769-23-2 CAPLUS
CN 1,2,4-Triazolo[3,4-a]isoquinolin-3(2H)-one, 8-[2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]-5,6-diphenyl- (CA INDEX NAME)

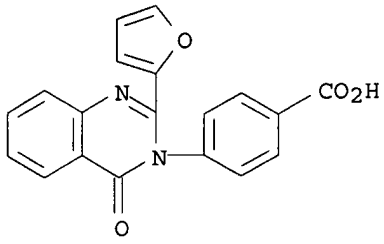


RN 915769-24-3 CAPLUS
CN 4(3H)-Quinazolinone, 3-(2,3-dihydro-5,6-diphenyl-3-thioxo-1,2,4-triazolo[3,4-a]isoquinolin-8-yl)-2-(2-furanyl)- (CA INDEX NAME)

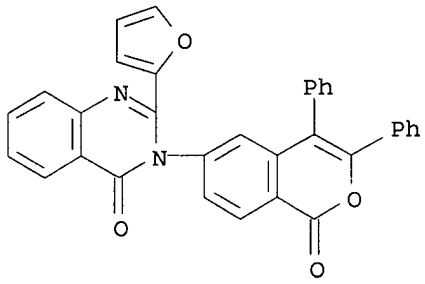


IT 857538-29-5P 915769-18-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and antiviral activity of oxo/thionotriazoloisoquinolinyl quinazolones)

RN 857538-29-5 CAPLUS
CN Benzoic acid, 4-[2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]- (CA INDEX NAME)



RN 915769-18-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(1-oxo-3,4-diphenyl-1H-2-benzopyran-6-yl)- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:104528 CAPLUS
DOCUMENT NUMBER: 144:192275
TITLE: Preparation of quinazolinone derivatives useful for the regulation of glucose homeostasis and food intake
INVENTOR(S): Rudolph, Joachim; O'Connor, Stephen; Coish, Philip; Wickens, Philip; Bondar, Georgiy; Chuang, Chih-Yuan; Ramsden, Philip; Lowe, Derek; Bierer, Donald; Chen, Libing; Fu, Wenlang; Khire, Uday; Liu, Xiao-Gao; Mcclure, Andrea; Wang, Lei; Yi, Lin; Esler, William
PATENT ASSIGNEE(S): Bayer Pharmaceuticals Corporation, USA
SOURCE: PCT Int. Appl., 559 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006012577	A2	20060202	WO 2005-US26192	20050722
WO 2006012577	A3	20060928		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,

ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.: US 2004-590804P P 20040722
OTHER SOURCE(S): CASREACT 144:192275; MARPAT 144:192275
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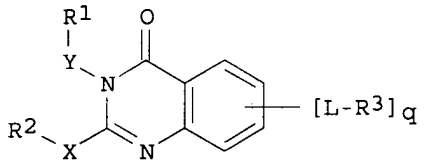
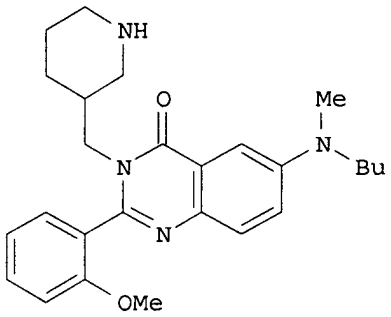


I



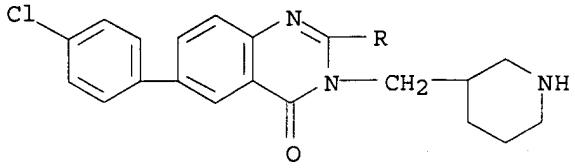
II

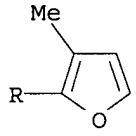
AB The invention is related to substituted quinazolinone derivs. I [R1 = (un)substituted pyrrolidin-3-yl, piperidin-3-yl, morpholin-4-yl, etc.; R2 = H, (un)substituted cyclo/alkyl, pyridinyl, Ph, etc.; R3 = H, halo, haloalkyl, (un)substituted Ph, alkyl, etc.; L = a bond, O, CO, S, SO2, NHSO2, NH and derivs., etc.; X = (CH2)m; m = 0-2; Y = (CH2)n; n = 1-2; p = 0-2; with provisos], and their pharmaceutically acceptable salts, and their compns., and methods for treating diabetes, obesity and related disorders, and regulation of glucose homeostasis and food intake (e.g., stimulation and suppression) (no data). The invention is also related to the preparation of quinazolinones I. Five biol. tests are given (no data). Thus, II•TFA was prepared by amination of 5-fluoro-2-nitrobenzoic acid with N-methylbutylamine, reduction of the nitro compound, cyclocondensation with o-anisoyl chloride, reaction with tert-Bu 3-(aminomethyl)piperidine-1-carboxylate (intermediate not isolated), and Boc-deprotection in the presence of TFA.

IT 875259-42-0P, 6-(4-Chlorophenyl)-2-(3-methyl-2-furyl)-3-[(piperidin-3-yl)methyl]quinazolin-4(3H)-one
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of quinazolinones useful for regulation of glucose homeostasis and food intake)

RN 875259-42-0 CAPLUS

CN 4(3H)-Quinazolinone, 6-(4-chlorophenyl)-2-(3-methyl-2-furanyl)-3-(3-piperidinylmethyl)- (CA INDEX NAME)

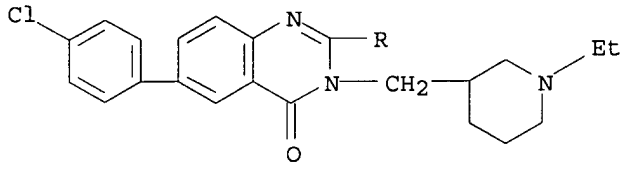


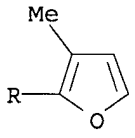


IT 875259-43-1P, 6-(4-Chlorophenyl)-3-[(1-ethylpiperidin-3-yl)methyl]-2-(3-methyl-2-furyl)quinazolin-4(3H)-one
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of quinazolinones useful for regulation of glucose homeostasis and food intake)

RN 875259-43-1 CAPLUS

CN 4(3H)-Quinazolinone, 6-(4-chlorophenyl)-3-[(1-ethyl-3-piperidinyl)methyl]-2-(3-methyl-2-furanyl)- (CA INDEX NAME)

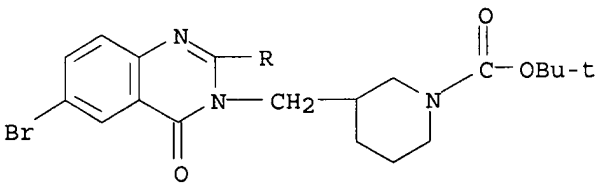


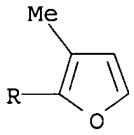


IT 875270-24-9, tert-Butyl 3-[[6-bromo-2-(3-methyl-2-furyl)-4-oxoquinazolin-3(4H)-yl]methyl]piperidine-1-carboxylate
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of quinazolinones useful for regulation of glucose homeostasis and food intake)

RN 875270-24-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 3-[[6-bromo-2-(3-methyl-2-furanyl)-4-oxo-3(4H)-quinazolinyl]methyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



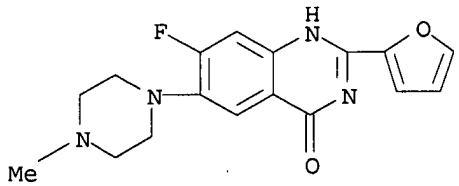


L4 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1011072 CAPLUS
DOCUMENT NUMBER: 143:440366
TITLE: Synthesis and antitumor activity of 2-aryl-7-fluoro-6-(4-methyl-1-piperazinyl)-4(3H)-quinazolinones
AUTHOR(S): Abdel-Jalil, Raid J.; Aldoqum, Hani M.; Ayoub, Mikdad T.; Voelter, Wolfgang
CORPORATE SOURCE: Chemistry Department, Faculty of Science and Arts, Hashemite University, Zarka, Jordan
SOURCE: Heterocycles (2005), 65(9), 2061-2070
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:440366

AB A series of new 2-aryl-7-fluoro-6-(4-methyl-1-piperazinyl)-4(3H)-quinazolinones were prepared by the oxidative cyclization of the corresponding 2-arylidineamino-4-fluoro-5-(4-methyl-1-piperazinyl)benzamides. The new quinazolinones were evaluated for their antitumor activity in vitro and three of the compds. exhibited activity against lung, breast and/or CNS cell lines.

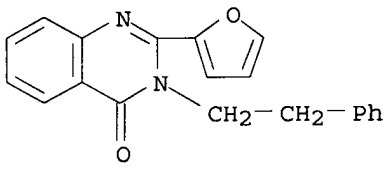
IT 868601-43-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antitumor activity of arylfluoro(methylpiperazinyl)quinazolinones)

RN 868601-43-8 CAPLUS
CN 4(1H)-Quinazolinone, 7-fluoro-2-(2-furanyl)-6-(4-methyl-1-piperazinyl)-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:199466 CAPLUS
DOCUMENT NUMBER: 142:348143
TITLE: 3H-Quinazolin-4-ones as a new calcilytic template for the potential treatment of osteoporosis
AUTHOR(S): Shcherbakova, Irina; Balandrin, Manuel F.; Fox, John; Ghatak, Anjan; Heaton, William L.; Conklin, Rebecca L.
CORPORATE SOURCE: Drug Discovery, NPS Pharmaceuticals, Inc., Salt Lake City, UT, 84108, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(6), 1557-1560
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:348143
AB Structure-activity relationship studies, focused on identification of the active pharmacophore fragments in a single high-throughput screening calcilytic hit, resulted in the discovery of potent calcium receptor antagonists, substituted 3H-quinazolin-4-ones.
IT 328540-74-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(3H-quinazolin-4-ones preparation and structure-related potential for osteoporosis treatment)
RN 328540-74-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-phenylethyl)- (CA INDEX NAME)



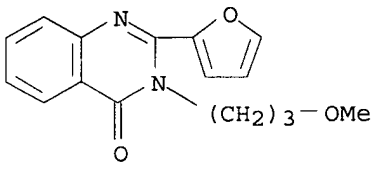
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:85958 CAPLUS
DOCUMENT NUMBER: 142:336323
TITLE: Microwave-assisted one-pot synthesis of 2,3-disubstituted 3H-quinazolin-4-ones
AUTHOR(S): Liu, Ji-Feng; Lee, Jaekyoo; Dalton, Audra M.; Bi, Grace; Yu, Libing; Baldino, Carmen M.; McElory, Eric; Brown, Matt
CORPORATE SOURCE: Division of Chemical Technologies, ArQule, Inc., Woburn, MA, 01801, USA
SOURCE: Tetrahedron Letters (2005), 46(8), 1241-1244
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:336323
AB A practical synthesis of 2,3-disubstituted 3H-quinazolin-4-ones with broad chemical scope is described. The key step is the microwave promoted one-pot, two-step reaction sequence combining anthranilic acids, carboxylic acids,

and amines providing efficient access to this important class of heterocycles. Furthermore, the reaction of 2-amino-3-pyridinecarboxylic acid with benzoyl chloride and benzenemethanamine gave 2-phenyl-3-(phenylmethyl)pyrido[2,3-d]pyrimidin-4(3H)-one.

IT 312499-61-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (furanyl)[(methoxy)propyl]-4(3H)-quinazolinone by microwave-assisted reaction using (amino)benzoic acid, benzoyl chloride, and amine as starting materials)

RN 312499-61-9 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-methoxypropyl)- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

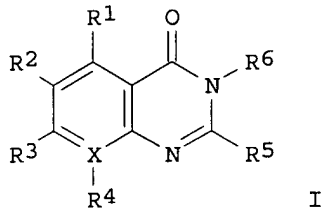
L4 ANSWER 8 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:412903 CAPLUS
DOCUMENT NUMBER: 140:423688
TITLE: Preparation of quinazolinone derivatives as calcilytics
INVENTOR(S): Shcherbakova, Irina; Balandrin, Manuel; Fox, John; Heaton, William; Conklin, Rebecca; Papac, Damon
PATENT ASSIGNEE(S): NPS Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041755	A2	20040521	WO 2003-US35162	20031104
WO 2004041755	A3	20040708		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2502302	A1	20040521	CA 2003-2502302	20031104
AU 2003291761	A1	20040607	AU 2003-291761	20031104
EP 1558260	A2	20050803	EP 2003-768655	20031104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1708306	A	20051214	CN 2003-80102626	20031104
JP 2006512315	T	20060413	JP 2004-550482	20031104

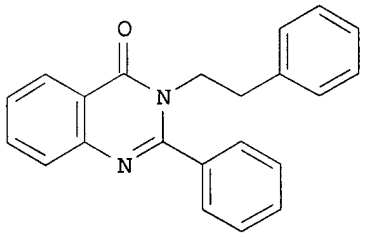
10/ 567,660

US 2006052345	A1	20060309	US 2005-531161		20050412
MX 2005PA04328	A	20050802	MX 2005-PA4328		20050422
PRIORITY APPLN. INFO.:			US 2002-423663P	P	20021104
			WO 2003-US35162	W	20031104

OTHER SOURCE(S): MARPAT 140:423688
GI



I



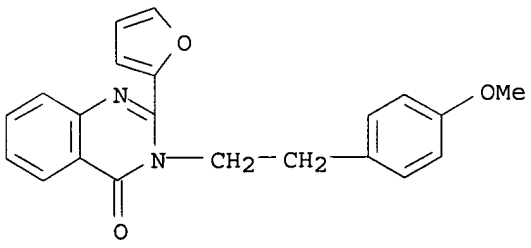
II

AB The title compds. I [R1, R2, R3 = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; R4 (optional) = H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.; X = C or N; R5 = H, alkyl, furyl, thienyl, styryl, pyridyl, (substituted)phenyl; R6 = H, alkyl, or -(CH2)n-X1-R7; n= 0-2; X1 = O, CO, CHOH, alkyl, or a single bond; R7 = an aromatic group optionally substituted with 1-3 substituents selected from H, halo, CN, CF3, OCF3, alkyl, alkoxy, etc.] were prepared as calcium receptor antagonists for the treatment of bone diseases. Thus, reaction of 2-phenyl-benzo[d][1,3]oxazin-4-one (preparation given) with phenethylamine gave compound II. Methods to determine the biol. activity of the compound of this invention were demonstrated.

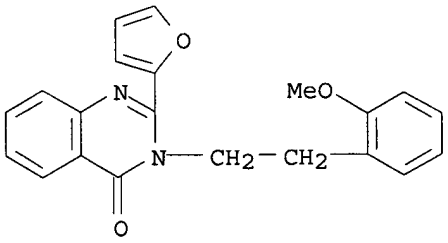
IT 691378-20-8P 691378-22-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quinazolinone derivs. as calcilytics)

RN 691378-20-8 CAPLUS

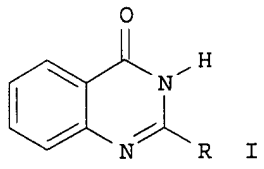
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-[2-(4-methoxyphenyl)ethyl]- (CA INDEX NAME)



RN 691378-22-0 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-[2-(2-methoxyphenyl)ethyl]- (CA INDEX NAME)

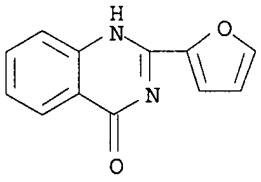


L4 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:277414 CAPLUS
DOCUMENT NUMBER: 141:54282
TITLE: A novel method for the synthesis of 4(3H)-quinazolinones
AUTHOR(S): Abdel-Jalil, Raid J.; Voelter, Wolfgang; Saeed, Muhammad
CORPORATE SOURCE: Faculty of Sciences and Arts, Chemistry Department, Hashemite University, Zarka, 13133, Jordan
SOURCE: Tetrahedron Letters (2004), 45(17), 3475-3476
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:54282
GI



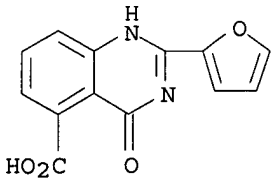
AB Condensation of anthranilamide with aryl-, alkyl-, or heteroarylaldehydes followed by heterocyclization, in the presence of CuCl2, afforded 2-substituted quinazolinones I (R = Me, Bu, Ph, 4-ClC6H4, 4-MeOC6H4, 2-Thienyl, 2-Furyl) in excellent yields.

IT 26059-84-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of quinazolinones via condensation of anthranilamide with aldehydes followed by heterocyclization)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)

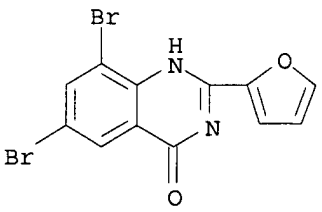


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:205966 CAPLUS
DOCUMENT NUMBER: 142:197901
TITLE: Product class 13: quinazolines
AUTHOR(S): Kikelj, D.
CORPORATE SOURCE: Germany
SOURCE: Science of Synthesis (2004), 16, 573-749
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review. Preparation of quinazolines by ring closure and ring transformation reactions as well as aromatization and substituent modification is given.
IT 108591-77-1P 132705-70-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of quinazolines)
RN 108591-77-1 CAPLUS
CN 5-Quinazolinecarboxylic acid, 2-(2-furanyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



RN 132705-70-5 CAPLUS
CN 4(1H)-Quinazolinone, 6,8-dibromo-2-(2-furanyl)- (9CI) (CA INDEX NAME)



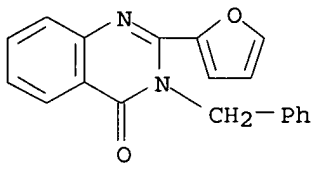
REFERENCE COUNT: 1014 THERE ARE 1014 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:63149 CAPLUS
DOCUMENT NUMBER: 136:401281
TITLE: Parallel fluorous biphasic synthesis of 3H-quinazolin-4-ones by an aza-Wittig reaction employing perfluoroalkyl-tagged triphenylphosphine
AUTHOR(S): Barthelemy, Sophie; Schneider, Siegfried; Bannwarth, Willi
CORPORATE SOURCE: Institut fur Organische Chemie und Biochemie, Universitat Freiburg, Freiburg, D-79104, Germany
SOURCE: Tetrahedron Letters (2002), 43(5), 807-810
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:401281

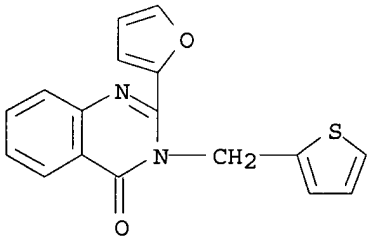
AB A perfluoroalkyl-tagged triphenylphosphine [i.e., tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]phosphine (I)] was applied in a fluorous biphasic system for the efficient parallel synthesis of 3H-quinazolin-4-ones via an Aza-Wittig reaction. The reaction of I with N-aroyl-N-alkyl-2-azidobenzamide derivs. gave the corresponding 2-[[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]phosphoranylidene]amino]-N-aroyl-N-alkylbenzamides. These were not isolated, but converted to the corresponding quinazolinones via an aza-Wittig reaction. The products were isolated by solid-phase extraction on fluorous reversed-phase silica gel. A new solid-phase bound phosphine derivative was used for comparison and yielded similar results.

IT 256954-79-7P, 2-(2-Furanyl)-3-(phenylmethyl)-4(3H)-Quinazolinone 428817-12-3P 428817-14-5P 428817-16-7P
RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP (Preparation)
(preparation of fluorous biphasic combinatorial library of quinazolinone derivs. by Aza-Wittig reaction of trisheptadecafluorodecylphenylphosphoranylideneaminobenzamide intermediates)

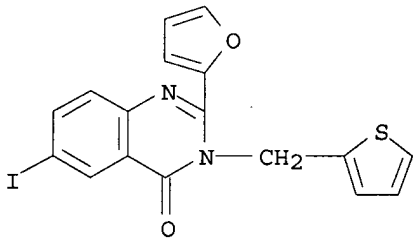
RN 256954-79-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(phenylmethyl)- (CA INDEX NAME)



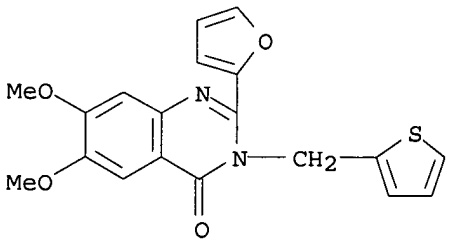
RN 428817-12-3 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-thienylmethyl)- (CA INDEX NAME)



RN 428817-14-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-6-iodo-3-(2-thienylmethyl)- (CA INDEX NAME)



RN 428817-16-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-6,7-dimethoxy-3-(2-thienylmethyl)- (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

10/ 567,660

ACCESSION NUMBER: 2001:816643 CAPLUS
DOCUMENT NUMBER: 135:344500
TITLE: Preparation of condensed heteroaryl derivatives as phosphatidylinositol 3-kinase inhibitors and anticancer agents
INVENTOR(S): Hayakawa, Masahiko; Kaizawa, Hiroyuki; Moritomo, Hiroyuki; Kawaguchi, Ken-ichi; Koizumi, Tomonobu; Yamano, Mayumi; Matsuda, Koyo; Okada, Minoru; Ohta, Mitsuaki
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan; Ludwig Institute for Cancer Research; Imperial Cancer Research Technology Ltd.
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001083456	A1	20011108	WO 2001-JP3650	20010426
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2407593	A1	20011108	CA 2001-2407593	20010426
AU 2001052610	A	20011112	AU 2001-52610	20010426
US 2002151544	A1	20021017	US 2001-843615	20010426
US 6608053	B2	20030819		
EP 1277738	A1	20030122	EP 2001-925981	20010426
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 3649395	B2	20050518	JP 2001-580885	20010426
CN 1629145	A	20050622	CN 2004-10055760	20010426
US 6608056	B1	20030819	US 2002-243416	20020913
KR 774855	B1	20071108	KR 2002-714412	20021025
US 2003236271	A1	20031225	US 2003-459002	20030610
US 6838457	B2	20050104		
US 2004009978	A1	20040115	US 2003-459220	20030610
US 6770641	B2	20040803		
US 2005014771	A1	20050120	US 2004-918094	20040813
US 7037915	B2	20060502		
JP 2005120102	A	20050512	JP 2004-332225	20041116
JP 3810017	B2	20060816		
US 2006058321	A1	20060316	US 2005-250782	20051014
US 7173029	B2	20070206		
US 2007037805	A1	20070215	US 2006-544144	20061006

PRIORITY APPLN. INFO.:		
JP 2000-128472	A	20000427
US 2000-200537P	P	20000427
US 2000-200481P	P	20000428
JP 2001-580885	A3	20010426
US 2001-843615	A3	20010426
WO 2001-JP3650	W	20010426
US 2002-243416	A3	20020913

US 2003-459002 A1 20030610
US 2004-918094 A1 20040813
US 2005-250782 A1 20051014

OTHER SOURCE(S): MARPAT 135:344500

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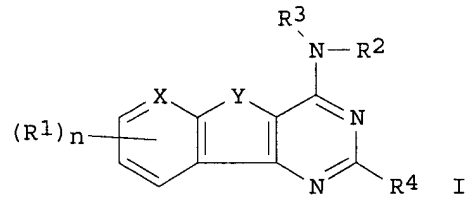
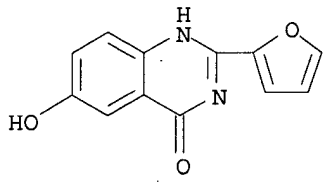


I

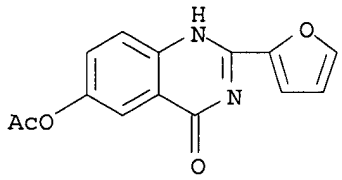
AB The title compds, e.g. I [n = 0 - 3; R1 = alkyl, etc.; R2, R3 = H, alkyl, etc; further detail on R2 and R3 is given; R4 = (un)substituted aryl, etc.; X = N, CH; Y = O, S, NH], are prepared Several compds. of this invention in vitro showed IC50 values of ≤ 1 μM against phosphatidylinositol 3-kinase (p110 α subtype). The antitumor activity of compds. of this invention is also demonstrated.

IT 371945-94-7P 371947-00-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of condensed heteroaryl derivs. as phosphatidylinositol 3-kinase inhibitors and anticancer agents)

RN 371945-94-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)-6-hydroxy- (9CI) (CA INDEX NAME)



RN 371947-00-1 CAPLUS
CN 4(1H)-Quinazolinone, 6-(acetyloxy)-2-(2-furanyl)- (9CI) (CA INDEX NAME)

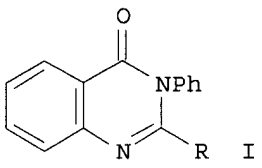


REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:299957 CAPLUS
DOCUMENT NUMBER: 133:120293

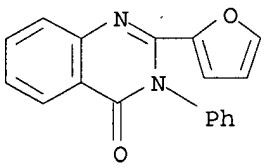
10/ 567,660

TITLE: Mass spectrometer as a probe in the synthesis of 2-substituted-3-phenyl-4 (3H)-quinazolinones
AUTHOR(S): Ramana, D. V.; Yuvaraj, T. Eswara
CORPORATE SOURCE: Department of Chemistry, Indian Institute of Technology, Madras, Chennai, 600 036, India
SOURCE: Indian Journal of Heterocyclic Chemistry (2000), 9(3), 173-180
CODEN: IJCHEI; ISSN: 0971-1627
PUBLISHER: Prof. R. S. Varma
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

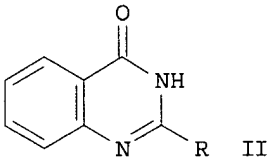
AB The ortho interaction of the anilide function with the N-acyl group in 2-acylaminobenzanilides 2-RCONHC6H4CONHPh (R = Ph, 2-furyl, Me, etc.) on electron impact leads to the elimination of H2O from the mol. ions, resulting in the formation of 2-substituted-3-phenyl-4-(3H)-quinazolinone radical cations. This mass spectrometric reaction has been successfully implemented in the laboratory to synthesize 4(3H)-quinazolinones I by the thermolysis of the 2-acylaminobenzanilides. The mechanisms and ion structures proposed in the mass spectral study are supported by high resolution data and Collision Activated Decomposition (CAD)-B/E linked scan spectra.
IT 62820-49-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of phenylquinazolinones using mass spectrometry)
RN 62820-49-9 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:41228 CAPLUS
DOCUMENT NUMBER: 132:180246
TITLE: Mass spectrometer as a probe in the synthesis of 2-substituted-4(3H)-quinazolinones
AUTHOR(S): Ramana, D. V.; Sundaram, N.; Yuvaraj, T. Eswara; Babu, B. Ganesh
CORPORATE SOURCE: Department of Chemistry, Indian Institute of Technology, Madras, 600 036, India

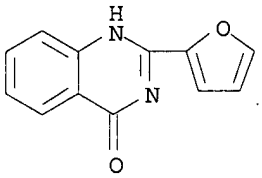
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1999), 38B(8), 905-908
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



II

AB The ortho interaction of the amide function with the N-aroyl group in 2-H2NCOC6H4NHCOR (I; R = Ph, 2- and 4-C6H4Me, -C6H4OMe, -C6H4Cl and -C6H4NO2, 2-furyl, Me) on electron impact leads to H2O elimination from the mol. ions, albeit a minor process, resulting in the formation of 2-substituted-4(3H)-quinazolinone (II) radical cations. The mechanisms and ion structure proposed in the mass-spectral study are supported by high-resolution data, CAD-B/E-linked scan spectra and CAD MIKE spectra. This mass-spectrometric reaction was exploited fruitfully in the laboratory to synthesize 10 corresponding II (R ≠ C6H4OMe-2) in excellent yield by pyrolysis of I.

IT 26059-84-7P, 4(3H)-Quinazolinone, 2-(2-furyl)-
RL: SPN (Synthetic preparation); PREP (Preparation)
(mass spectrometer as probe in synthesis of substituted quinazolinones)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)

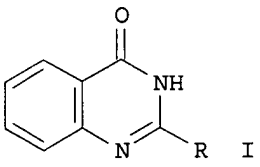


REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:161904 CAPLUS
DOCUMENT NUMBER: 124:289438
TITLE: Synthesis of 2-substituted 3H-quinazolin-4-ones from 2,6-di-tert-butyl-1,4-benzoquinone anthranoylhydrazone
AUTHOR(S): Komissarov, V. N.
CORPORATE SOURCE: Rostov. Gos. Univ., Rostov-on-Don, Russia
SOURCE: Zhurnal Organicheskoi Khimii (1995), 31(7), 1090-1
CODEN: ZORKAE; ISSN: 0514-7492
PUBLISHER: Nauka
DOCUMENT TYPE: Journal
LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 124:289438
GI



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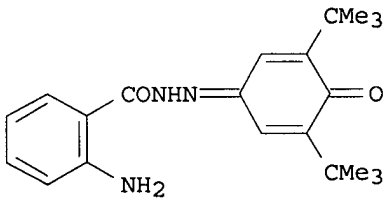
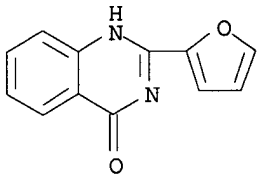
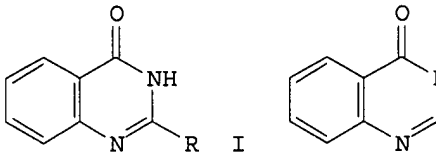


II

AB Quinazolinones I (R = p-anisyl, 2-furyl, 3-pyridyl, 3,5-di-tert-butyl-4-hydroxyphenyl) were prepared from the title hydrazone (II) and RCHO.
IT 26059-84-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:217509 CAPLUS
DOCUMENT NUMBER: 120:217509
TITLE: Effects of a 2-substituent on the ratio of N- and O-alkylation of 4(3H)-quinazolinones
AUTHOR(S): Hori, Manabu; Ohtaka, Hiroshi
CORPORATE SOURCE: New Drug Lab., Kanebo Ltd., Osaka, 534, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1993), 41(6), 1114-17
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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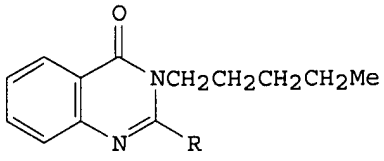
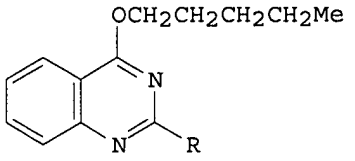


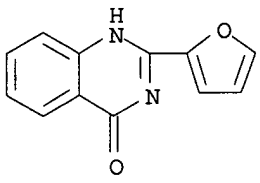
II



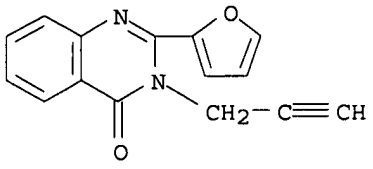
III

AB Alkylation of 4(3H)-quinazolinones [I; R = H, CHMe2, CMe3, CF3, (4-methylpiperazino)methyl, NMe2, NMePh, O(CH2)4Me] with 1-iodopentane in the presence of sodium hydride gave a mixture of 3-pentyl-4(3H)-quinazolinones (II) and 4-pentyloxyquinazolines (III). The ratio of O-alkyl/N-alkyl products varied according to the 2-substituents of the quinazoline ring. Multiple regression analyses revealed that the ratio was determined by a steric factor (width parameter of B) and an electronic factor (in terms of Hammett's σP) of the 2-substituent. It was also the case in the reported alkylation of 4(3H)-quinazolinones with propargyl bromide.

IT 26059-84-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(multiple regression anal. of substituent effect on ratio of N to O alkylation of)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



IT 26059-92-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, in multiple regression anal. of substituent effect on ratio of N to O alkylation of quinazolinones)
RN 26059-92-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-propynyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:625901 CAPLUS
DOCUMENT NUMBER: 119:225901
TITLE: Bis-azaheterocycles. Part I. Synthesis of 3,3'-bisquinazolin-4,4'-diones
AUTHOR(S): Reddy, P. S. N.; Bhavani, A. K.
CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1992), 31B(11), 740-4
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
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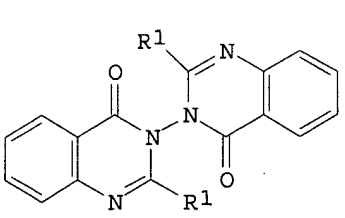

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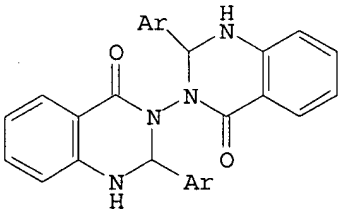


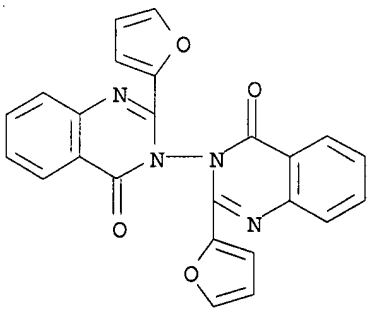
II

AB 1,2-Bis(2-aminobenzoyl)hydrazine reacts with RCO2H (R = H, Me, Et, n-Pr, CHMe2, n-Bu, n-pentyl) to yield 2,2'-dialkyl-3,3'-bisquinazoline-4,4'-diones I (R1 = R). Extension of this reaction to ArCHO (Ar = 2-O2NC6H4, 2-ClC6H4, Ph, 2-furyl, 4-MeC6H4, etc.) give a mixture of 2,2'-diaryltetrahydro-3,3'-bisquinazoline-4,4'-diones II and 1,2-bis(2-arylideneaminobenzoyl)hydrazines 2-ArCH:NC6H4CONHNHCOC6H4N:CHAr (III). Permanganate oxidation of II/III give I (R1 = Ar) in excellent yields.

IT 150614-60-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 150614-60-1 CAPLUS

CN [3,3'(4H,4'H)-Biquinazoline]-4,4'-dione, 2,2'-di-2-furanyl- (CA INDEX NAME)



L4 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:83625 CAPLUS
DOCUMENT NUMBER: 116:83625
TITLE: An expeditious synthesis of 2-aryl- and 2-alkylquinazolin-4(3H)-ones
AUTHOR(S): Couture, Axel; Cornet, Helene; Grandclaudon, Pierre
CORPORATE SOURCE: Lab. Chim. Org. Phys., Univ. Sci. Tech. Lille Flandres-Artois, Villeneuve d'Ascq, F-59655, Fr.
SOURCE: Synthesis (1991), (11), 1009-10
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:83625
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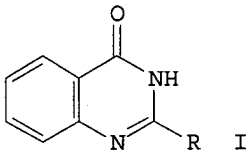
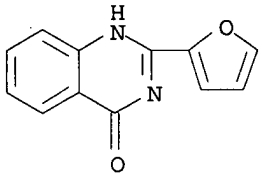


I

AB 2-Aryl- and alkylquinazolinones I (R = Me, cyclohexyl, styryl, 2-furyl, 2-thienyl, substituted Ph) are readily accessible by reaction of o-LiNHC6H4CONEt2 with RCN.
IT 26059-84-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:583223 CAPLUS
DOCUMENT NUMBER: 115:183223
TITLE: Synthesis, HMO-treatment, and some reactions of 6,8-dibromo-2-(2'-furyl)-3,1-benzoxazin-4(4H)-one
AUTHOR(S): El-Khamry, Abdel Momen A.; Habashy, M. M.; El-Nagdy, S.; El-Bassiouny, F. A.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Acta Chimica Hungarica (1990), 127(3), 423-31
CODEN: ACHUDC; ISSN: 0231-3146
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:183223
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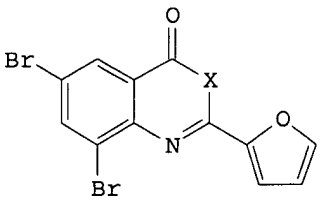

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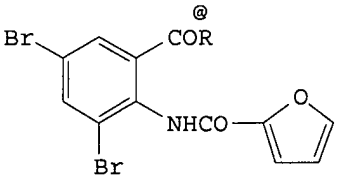
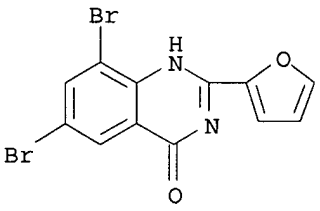


II

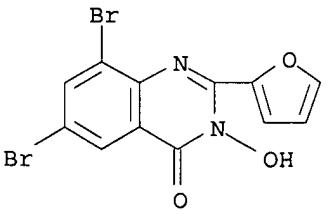
AB Reactions of 6,8-dibromo-2-(2-furyl)-3,1-benzoxazin-4(4H)-one (I, X = O) with different N and C nucleophiles have been performed. The exptl. findings highlighted the role of the furyl group in the mode of reaction and showed complete accordance with the theor. predicted activities based on the simple HMO method. Some of the prepared compds., I (X = O, NH, NOH, NH2) and II (R = OH, NHNH2, NHCH2Ph, piperidino, morpholino), were tested for bactericidal activity, but were inactive.

IT 132705-70-5P 132705-71-6P 132705-72-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)

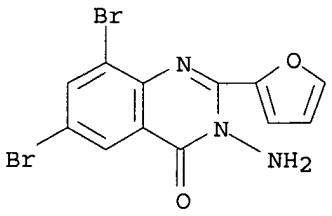
RN 132705-70-5 CAPLUS
CN 4(1H)-Quinazolinone, 6,8-dibromo-2-(2-furanyl)- (9CI) (CA INDEX NAME)



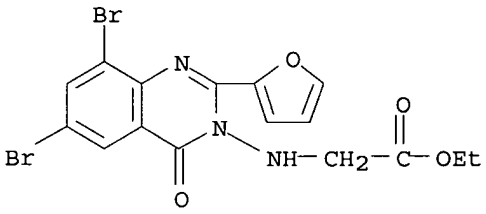
RN 132705-71-6 CAPLUS
CN 4(3H)-Quinazolinone, 6,8-dibromo-2-(2-furanyl)-3-hydroxy- (CA INDEX NAME)



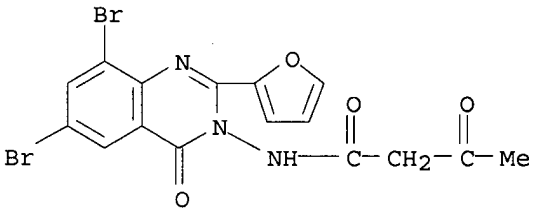
RN 132705-72-7 CAPLUS
CN 4(3H)-Quinazolinone, 3-amino-6,8-dibromo-2-(2-furanyl)- (CA INDEX NAME)



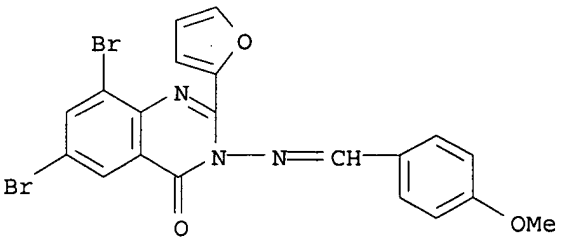
IT 132705-73-8P 132705-74-9P 132705-75-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 132705-73-8 CAPLUS
CN Glycine, N-[6,8-dibromo-2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)



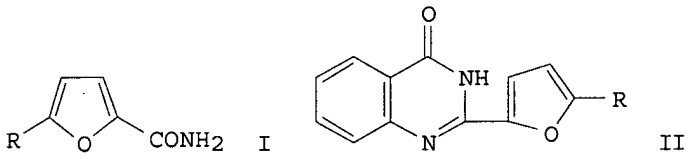
RN 132705-74-9 CAPLUS
CN Butanamide, N-[6,8-dibromo-2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]-3-oxo- (CA INDEX NAME)



RN 132705-75-0 CAPLUS
CN 4(3H)-Quinazolinone, 6,8-dibromo-2-(2-furanyl)-3-[[(4-methoxyphenyl)methylene]amino]- (CA INDEX NAME)



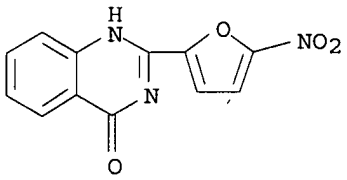
L4 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:459081 CAPLUS
DOCUMENT NUMBER: 113:59081
TITLE: Syntheses based on furancarboxylic acid amides. 1. Synthesis and structure of 2-(5-R-2-furyl)-4-oxoquinazolines
AUTHOR(S): Kozlovskaya, I. N.; Badovskaya, L. A.; Zavodnik, V. E.; Tyukhteneva, Z. I.
CORPORATE SOURCE: Krasnodar. Politekh. Inst. Krasnodar, 350072, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1989), (11), 1463-6
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 113:59081
GI



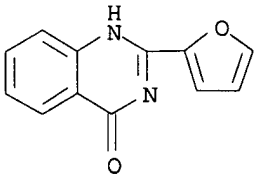
AB Cyclocondensation of furancarboxamides I (R = H, Me, Ph, Br, iodo, NO2, 4-BrC6H4, 4-O2NC6H4) with anthranilic acid in the presence of POCl3 1 h at 100° gave 62-98% quinazolinones II whose (R = H) crystal and mol. structure was confirmed by x-ray anal.

IT 6023-96-7P 26059-84-7P 128373-25-1P
128373-26-2P 128373-27-3P 128373-28-4P
128373-29-5P 128373-30-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

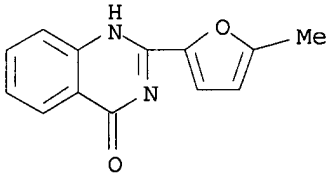
RN 6023-96-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-nitro-2-furanyl)- (9CI) (CA INDEX NAME)



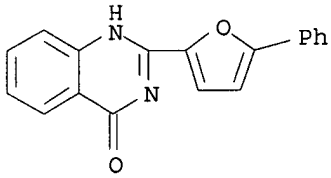
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



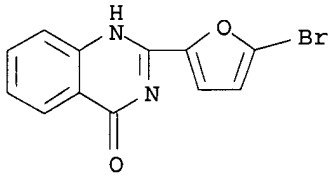
RN 128373-25-1 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-methyl-2-furanyl)- (9CI) (CA INDEX NAME)



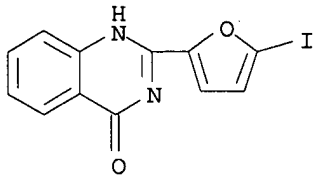
RN 128373-26-2 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-phenyl-2-furanyl)- (9CI) (CA INDEX NAME)



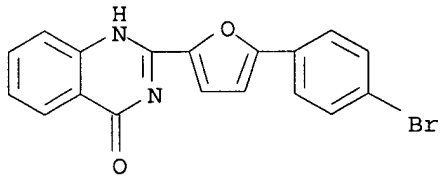
RN 128373-27-3 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-bromo-2-furanyl)- (9CI) (CA INDEX NAME)



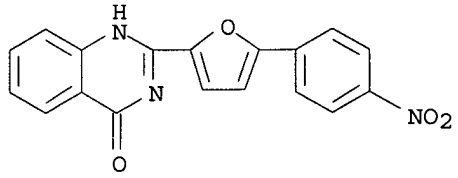
RN 128373-28-4 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-iodo-2-furanyl)- (9CI) (CA INDEX NAME)



RN 128373-29-5 CAPLUS
CN 4(1H)-Quinazolinone, 2-[5-(4-bromophenyl)-2-furanyl]- (9CI) (CA INDEX NAME)



RN 128373-30-8 CAPLUS
CN 4(1H)-Quinazolinone, 2-[5-(4-nitrophenyl)-2-furanyl]- (9CI) (CA INDEX NAME)

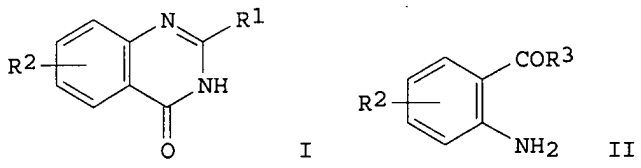


L4 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:406539 CAPLUS
DOCUMENT NUMBER: 109:6539
TITLE: Quinazolin-4-one derivatives as drugs, agrochemicals, or fluorescent substances and a process for their preparation
INVENTOR(S): Terakawa, Masaaki
PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62258368	A	19871110	JP 1986-52071	19860310
JP 05039950	B	19930616		
PRIORITY APPLN. INFO.:			JP 1986-52071	19860310

OTHER SOURCE(S): CASREACT 109:6539

GI

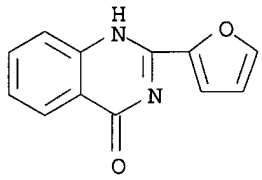


AB The title compds. I [R1 = (un)substituted alkyl, aryl, aralkyl or heterocyclyl; R2 = R1, H, halo, NO2, HOCH2], useful as drugs, agrochems., or fluorescent substances (no data), were prepared from II (R3 = OH, alkoxy, NH2). A 1:2:5.9 (mol) mixture of o-H2NC6H4CO2Me, Me3CCN, and MeOH in a teflon capsule placed in an high pressure reactor was pressurized to 7000 atm and heated to 140°, the pressure was raised to 8000 atm and the mixture was kept 20 h to give 86% I (R1 = Me3C, R2 = H).

IT 26059-84-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as drug, agrochem. or fluorescent substance)

RN 26059-84-7 CAPLUS

CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:496675 CAPLUS

DOCUMENT NUMBER: 107:96675

TITLE: 2-Aryl-4(3H)-quinazolinone-5-carboxylic acids

AUTHOR(S): Caswell, Lyman R.; Chao, Alice Huey Mei

CORPORATE SOURCE: Dep. Chem., Texas Woman's Univ., Denton, TX, 76204, USA

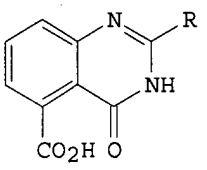
SOURCE: Journal of Chemical and Engineering Data (1987), 32(3), 389-90
CODEN: JCEAAX; ISSN: 0021-9568

DOCUMENT TYPE: Journal

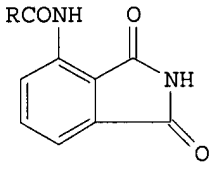
LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:96675

GI



I



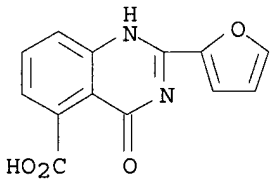
II

AB Twelve title compds. I [R = Ph, 4-MeOC6H4, 2-MeOC6H4, 4-ClC6H4, 4-MeC6H4, 3-FC6H4, 3,5-(O2N)2C6H3, 2-furyl, etc.] were prepared in 21-85% yields by rearrangement of (aroylamino)phthalimides II in 1N KOH. The rearrangement is inhibited by ortho substituents on the aroyl group.

IT 108591-77-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 108591-77-1 CAPLUS

CN 5-Quinazolinecarboxylic acid, 2-(2-furanyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:572420 CAPLUS

DOCUMENT NUMBER: 105:172420

ORIGINAL REFERENCE NO.: 105:27793a,27796a

TITLE: A new synthesis of 2-aryl-3,4-dihydro-5H-1,3,4-benzotriazepin-5-ones

AUTHOR(S): Reddy, C. K.; Reddy, P. S. N.; Ratnam, C. V.

CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India

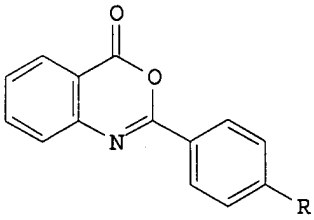
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1985), 24B(9), 902-4
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

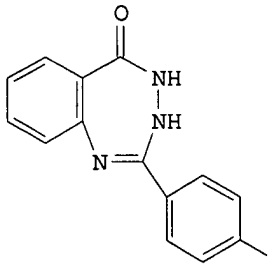
LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:172420

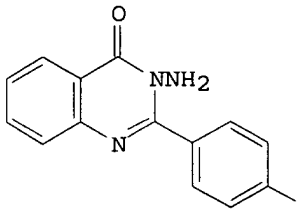
GI



R I



R II



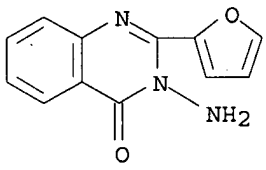
R III

AB The reaction of 2-aryl-3,1-benzoxazine-4-ones I (R = H, Me, OMe, NO2, Cl) and hydrazine hydrate in refluxing xylene yielded 2-aryl-3,4-dihydro-5H-1,3,4-benzotriazepin-5-ones II in 55-74% yield. In basic conditions I yielded 2-aryl-3-aminoquinazolin-4(3H)-ones III. The mechanism of these reactions are discussed.

IT 104830-72-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 104830-72-0 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-(2-furanyl)- (CA INDEX NAME)



L4 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:78178 CAPLUS

DOCUMENT NUMBER: 102:78178

ORIGINAL REFERENCE NO.: 102:12249a,12252a

TITLE: Studies in organic mass spectrometry. IV. Electron impact induced fragmentation of 2-substituted 3-(5-isoxazolyl)-4(3H)-quinazolinones of pharmaceutical interest

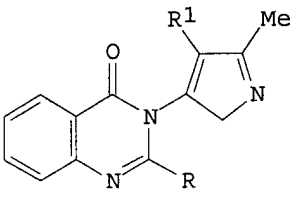
AUTHOR(S): Ceraulo, Leopoldo; Plescia, Salvatore; Daidone, Giuseppe; Bajardi, Maria Luisa

CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Palermo, Palermo, 90123, Italy

SOURCE: Journal of Heterocyclic Chemistry (1984), 21(4), 1209-13
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English
GI

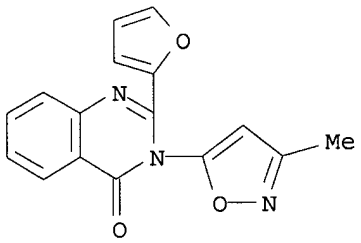


I

AB The electron impact mass spectra of 13 title compds. I (R = H, Me, Et, Me2CH, Ph, substituted Ph, 2-furyl; R1 = H, Ph) were investigated with the aid of metastable ion detection and high resolution measurements. The major breakdown processes occurred because of isoxazole ring lability upon electron impact.

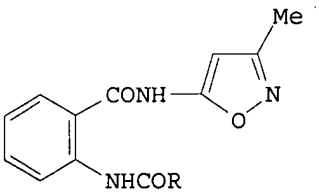
IT 90059-44-2
RL: PRP (Properties)
(mass spectrum of)

RN 90059-44-2 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-methyl-5-isoxazolyl)- (CA INDEX NAME)

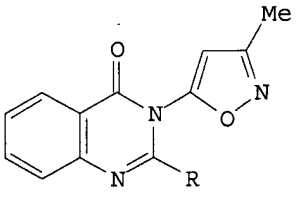


L4 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:191825 CAPLUS
DOCUMENT NUMBER: 100:191825
ORIGINAL REFERENCE NO.: 100:29163a,29166a
TITLE: 3-Isoxazolyl-substituted 4(3H)-quinazolinones of pharmaceutical interest
AUTHOR(S): Plescia, S.; Daidone, G.; Ceraulo, L.; Bajardi, M. L.; Reina, R. Arrigo
CORPORATE SOURCE: Ist. Chim. Farm. Tossicol., Univ. Palermo, Palermo, Italy
SOURCE: Farmaco, Edizione Scientifica (1984), 39(2), 120-4
CODEN: FRPSAX; ISSN: 0430-0920
DOCUMENT TYPE: Journal
LANGUAGE: Italian
OTHER SOURCE(S): CASREACT 100:191825
GI



I



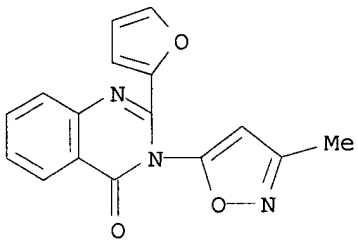
II

AB Anthranilamides I (R = alkyl; Ph; chloro-, nitro-, or methylphenyl; furyl) were converted to quinazolinones II, useful as analgesics and antiinflammatory and body temperature-lowering agents (no data). Thus, I (R = Pr) was heated with POCl3 and some water to give II (R = Pr). Anthranilic acid N-(3-methyl-5-isoxazolyl)amide was acylated by RCOCl in pyridine to yield I.

IT 90059-44-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 90059-44-2 CAPLUS

CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-methyl-5-isoxazolyl)- (CA INDEX NAME)



L4 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:34559 CAPLUS

DOCUMENT NUMBER: 98:34559

ORIGINAL REFERENCE NO.: 98:5409a,5412a

TITLE: Synthesis and reactions of 2-furyl-3,1-benzothiazine-4(H)-thione, 2-furyl-4(3H)-quinazolinone and 2-furyl-3,1-benzoxazin-4(H)-one

AUTHOR(S): Essawy, A.

CORPORATE SOURCE: Fac. Sci., Zagazig Univ., Zagazig, Egypt

SOURCE: Revue Roumaine de Chimie (1982), 27(3), 415-21
CODEN: RRCHAX; ISSN: 0035-3930

DOCUMENT TYPE: Journal

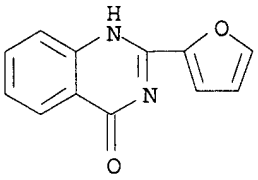
LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:34559

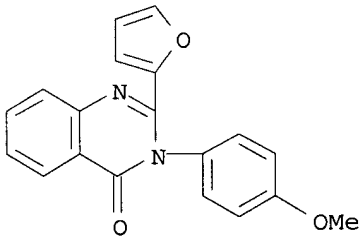
AB 2-Furyl-3,1-benzoxazin-4-one reacted with AcCH2CO2Et, CH2(CN)2, hydrazines, morpholine, primary aliphatic amines, primary aromatic amines, Grignard reagents, NaN3, HCONH2, and P2S5 to give various products. 2-Furyl-4(3H)-quinazolinone undergoes reaction with POCl3, Me2SO4, ClCH2CO2Et, BrCHMeCO2Et and with CH2O and piperidine or morpholine. 2-Furyl-3,1-benzothiazine-4(H)-thione reacts with Grignard reagents, hydrazines, amines, NH2OH and Cu bronze.

IT 26059-84-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

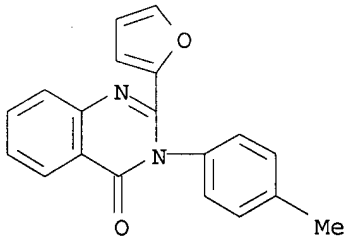
(Reactant or reagent)
(preparation and reactions of)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



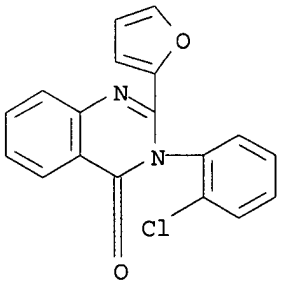
IT 35868-41-8P 62820-50-2P 62820-55-7P
62820-61-5P 84141-42-4P 84155-09-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 35868-41-8 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methoxyphenyl)- (CA INDEX NAME)



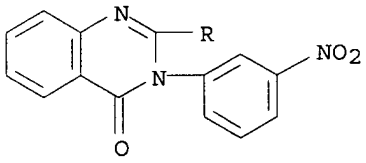
RN 62820-50-2 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methylphenyl)- (CA INDEX NAME)

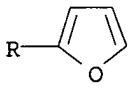


RN 62820-55-7 CAPLUS
CN 4(3H)-Quinazolinone, 3-(2-chlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)

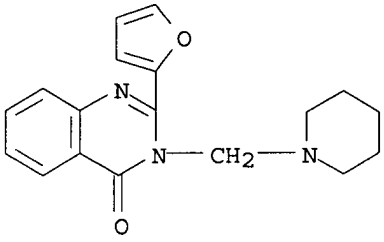


RN 62820-61-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-nitrophenyl)- (CA INDEX NAME)

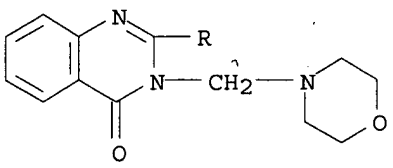


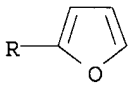


RN 84141-42-4 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(1-piperidinylmethyl)- (CA INDEX NAME)



RN 84155-09-9 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-morpholinylmethyl)- (CA INDEX NAME)



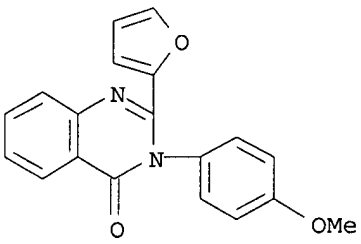


L4 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:183805 CAPLUS
DOCUMENT NUMBER: 86:183805
ORIGINAL REFERENCE NO.: 86:28789a,28792a
TITLE: Search for physiologically active compounds: Part XXVIII. Synthesis of 7-chloro-2-methyl- and 2-(2-furyl)-3-aryl-4-quinazolones
AUTHOR(S): Seshavataram, S. K. V.; Rao, N. V. Subba
CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, India
SOURCE: Proceedings - Indian Academy of Sciences, Section A (1977), 85(2), 81-9
CODEN: PISAA7; ISSN: 0370-0089
DOCUMENT TYPE: Journal
LANGUAGE: English

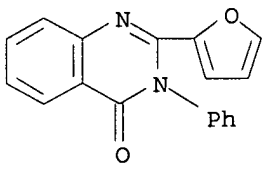
AB A number of arylquinazolone derivs. were synthesized by condensing N-acyl anthranilic acids with primary aromatic amines, and the quinazolone derivs. were then tested for their antibacterial, antifungal, and piscicidal activities. The relations of mol. structure to the different biol. activities are discussed, and the most active compds. are indicated.

IT 35868-41-8 62820-49-9 62820-50-2
62820-51-3 63314-19-2
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antibacterial and piscicidal activity of)

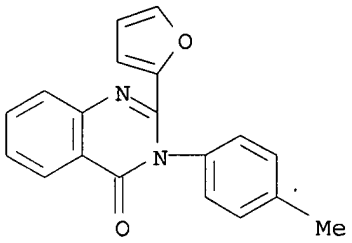
RN 35868-41-8 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methoxyphenyl)- (CA INDEX NAME)



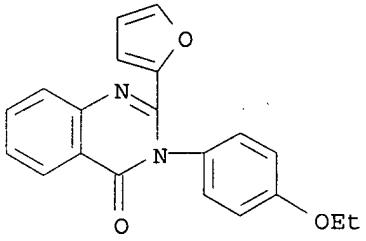
RN 62820-49-9 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-phenyl- (CA INDEX NAME)



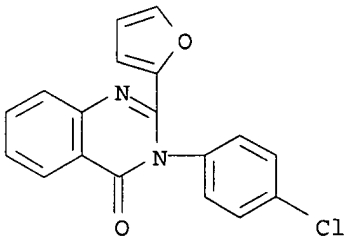
RN 62820-50-2 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methylphenyl)- (CA INDEX NAME)



RN 62820-51-3 CAPLUS
CN 4(3H)-Quinazolinone, 3-(4-ethoxyphenyl)-2-(2-furanyl)- (CA INDEX NAME)

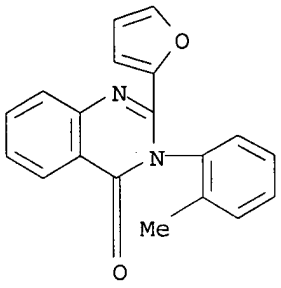


RN 63314-19-2 CAPLUS
CN 4(3H)-Quinazolinone, 3-(4-chlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)

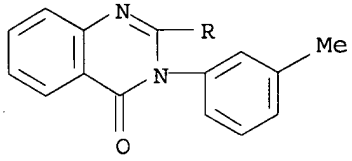


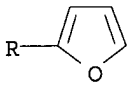
IT 62820-52-4P 62820-53-5P 62820-54-6P
62820-55-7P 62820-56-8P 62820-57-9P
62820-58-0P 62820-59-1P 62820-60-4P
62820-61-5P 62820-62-6P 62820-63-7P
RL: PREP (Preparation)
(preparation and antibacterial and piscicidal activity of)

RN 62820-52-4 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-methylphenyl)- (CA INDEX NAME)

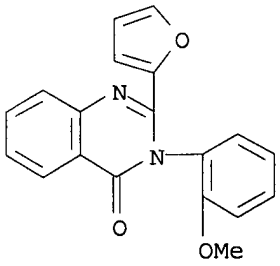


RN 62820-53-5 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-methylphenyl)- (CA INDEX NAME)

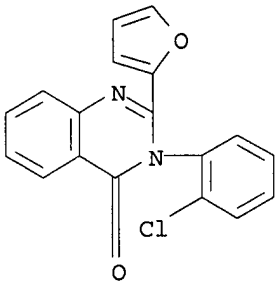




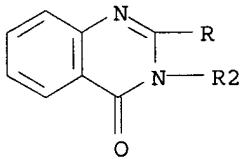
RN 62820-54-6 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-methoxyphenyl)- (CA INDEX NAME)

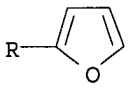


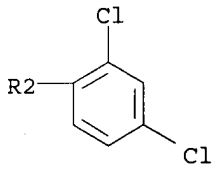
RN 62820-55-7 CAPLUS
CN 4(3H)-Quinazolinone, 3-(2-chlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)



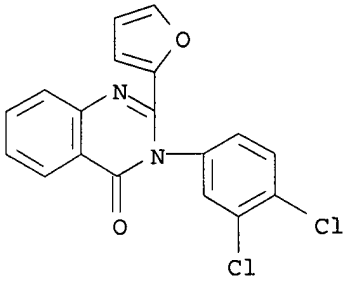
RN 62820-56-8 CAPLUS
CN 4(3H)-Quinazolinone, 3-(2,4-dichlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)



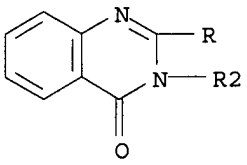


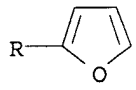


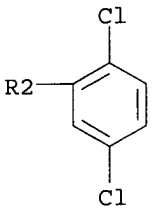
RN 62820-57-9 CAPLUS
CN 4(3H)-Quinazolinone, 3-(3,4-dichlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)



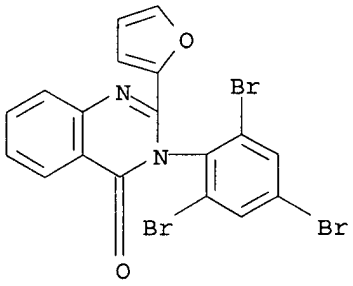
RN 62820-58-0 CAPLUS
CN 4(3H)-Quinazolinone, 3-(2,5-dichlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)



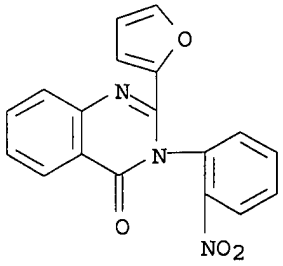




RN 62820-59-1 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2,4,6-tribromophenyl)- (CA INDEX NAME)

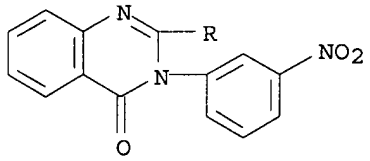


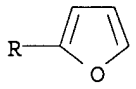
RN 62820-60-4 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-nitrophenyl)- (CA INDEX NAME)



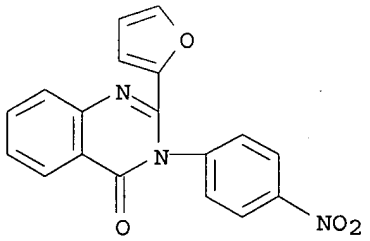
RN 62820-61-5 CAPLUS

CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(3-nitrophenyl)- (CA INDEX NAME)

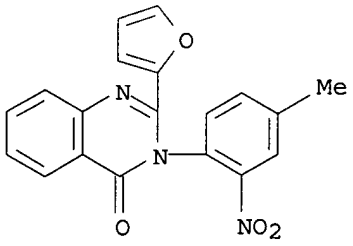




RN 62820-62-6 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-nitrophenyl)- (CA INDEX NAME)



RN 62820-63-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methyl-2-nitrophenyl)- (CA INDEX NAME)



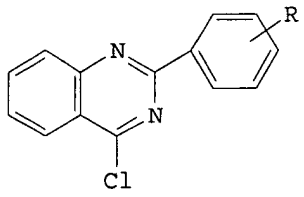
L4 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1976:421438 CAPLUS
DOCUMENT NUMBER: 85:21438
ORIGINAL REFERENCE NO.: 85:3509a,3512a
TITLE: Substituted 2-arylquinazolines as fungicides
INVENTOR(S): Harnish, Wayne N.; Ramsey, Arthur A.
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: U. S. Publ. Pat. Appl. B, 7 pp.
CODEN: USXXDP
DOCUMENT TYPE: Patent
LANGUAGE: English

10/ 567,660

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 450870	I5	19760316	US 1974-450870	19740313
US 3998951	A	19761221		

PRIORITY APPLN. INFO.: US 1974-450870 A 19740313
GI

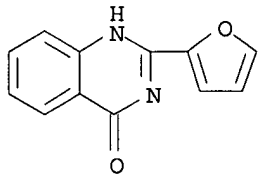


I

AB 2-Aryl-4-chloroquinazolines (I, R = p-Me, H, p-,m-,o-Cl, p-Me3C, p-Et, o-Me, p-EtO), useful as fungicides against bean powdery mildew, bean rust, rice blast, and angular leaf spot of cucumber, were prepared by chlorination of the corresponding quinazolinones with SOCl2 in DMF. The starting quinazolinones were prepared by treatment of o-aminobenzamide with a benzoyl chloride followed by base-catalyzed cyclization.

IT 26059-84-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of)

RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)

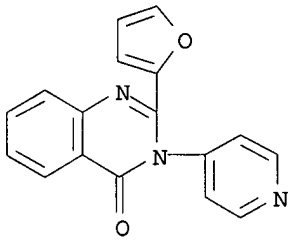


L4 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:535129 CAPLUS
DOCUMENT NUMBER: 77:135129
ORIGINAL REFERENCE NO.: 77:22177a,22180a
TITLE: Pharmacology of some new 4-(3H) quinazolinones. II. Effect on reproduction, blood pressure, and respiration
AUTHOR(S): Saksena, S. K.; Somasekhara, S.
CORPORATE SOURCE: Sarabhai Res. Cent. Wadi Wadi, Baroda, India
SOURCE: Indian Journal of Medical Research (1913-1988) (1972), 60(2), 284-6
CODEN: IJMRAQ; ISSN: 0019-5340
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Among 20 quinazolinones fed to rats at 30.0 mg/kg/day on days 1-7 of

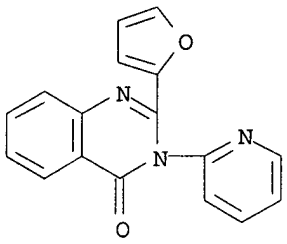
pregnancy, 2-methyl-3-(4-hydroxy-2-methylphenyl)-4(3H)-quinazolinone (I) [5060-52-6] showed the greatest antifertility activity, causing 60% inhibition of pregnancy. 2-Methyl-3-(2-hydroxy-4-methylphenyl)-4(3H)-quinazolinone [36556-91-9] inhibited pregnancy by 40%, and 3 other compds. by 20%.

IT 38781-86-1P 38781-87-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 38781-86-1 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-pyridinyl)- (CA INDEX NAME)



RN 38781-87-2 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-pyridinyl)- (CA INDEX NAME)



L4 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:530626 CAPLUS
DOCUMENT NUMBER: 77:130626
ORIGINAL REFERENCE NO.: 77:21487a,21490a
TITLE: Quinazoline diuretics
INVENTOR(S): Robba, Max Fernand; Marcy, Rene Henri Pierre; Duval, Denise Jeanne Claude
PATENT ASSIGNEE(S): Innothera
SOURCE: Fr. Demande, 9 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2077804	A5	19711105	FR 1970-5372	19700216
FR 2077804	B1	19730316		

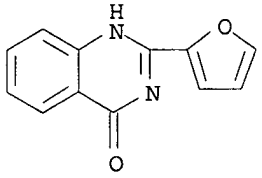
PRIORITY APPLN. INFO.: FR 1970-5372 A 19700216
GI For diagram(s), see printed CA Issue.

10/ 567,660

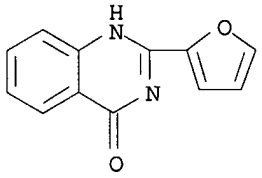
AB 2-(2-Furyl)-3,4-dihydro-4-quinazolinone (I) is prepared by heating 2-furanthio-carboxamide with anthranilic acid to 150-60°. I and its alkaline salts are diuretics. Detailed toxicol. and pharmacol. data given.

IT 26059-84-7 38950-31-1 38950-32-2
38950-33-3
RL: BIOL (Biological study)
(diuretic)

RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)

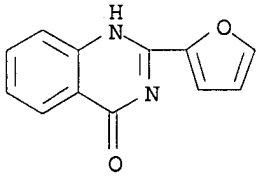


RN 38950-31-1 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)-, lithium salt (9CI) (CA INDEX NAME)



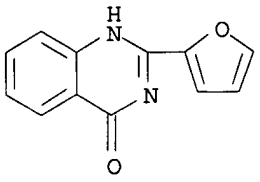
● Li

RN 38950-32-2 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)-, sodium salt (9CI) (CA INDEX NAME)



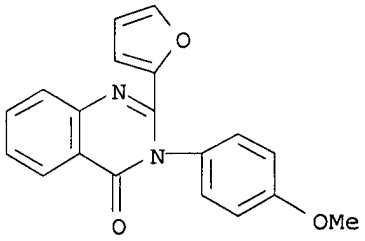
● Na

RN 38950-33-3 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)-, potassium salt (9CI) (CA INDEX NAME)



● K

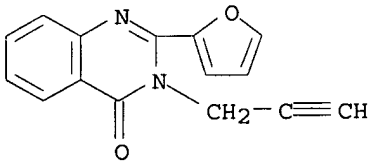
L4 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:94460 CAPLUS
DOCUMENT NUMBER: 76:94460
ORIGINAL REFERENCE NO.: 76:15145a,15148a
TITLE: Pharmacology of some new 4-(3H)-quinazolinones. I. Effect on reproduction, blood pressure, and respiration
AUTHOR(S): Saksena, S. K.; Nadkarni, A. S.; Dighe, V. S.; Somasekhara, S.
CORPORATE SOURCE: Sarabhai Res. Cent., Baroda, India
SOURCE: Indian Journal of Medical Research (1913-1988) (1971), 59(7), 1109-12
CODEN: IJMRAQ; ISSN: 0019-5340
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Of 22 4(3H)-quinazolinones fed orally at 30 mg/kg to rats from days 1 to 7 of pregnancy, only 2-(p-anisyl)-3-isopropyl-3,4-dihydroquinazolin-4-one (I) [32700-76-8] inhibited pregnancy significantly (60%). The closely related mol. 3-isopropyl-2-(3,4,5-trimethoxyphenyl)-3,4-dihydroquinazolin-4-one [34388-22-2] did not show any detectable antifertility activity and only 5 other 4(3H)-quinazolinones inhibited pregnancy but only by 20%. None of the compds. showed estrogenic or antiestrogenic activity in immature rats at 30 mg/kg. Blood pressure and respiration studies in dogs revealed no significant effects when the compds. were injected i.v. at 5.0 mg/kg.
IT 35868-41-8
RL: BIOL (Biological study)
(pharmacology)
RN 35868-41-8 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methoxyphenyl)- (CA INDEX NAME)



L4 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

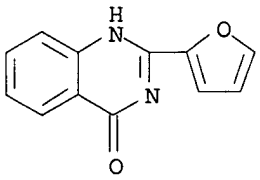
10/ 567,660

ACCESSION NUMBER: 1970:466536 CAPLUS
DOCUMENT NUMBER: 73:66536
ORIGINAL REFERENCE NO.: 73:10899a,10902a
TITLE: Medicinal chemistry of oxoquinazolines. VII. Synthesis and pharmacology of some 4-oxoquinazolines and related 4-propargyloxyquinazolines and open amides
AUTHOR(S): Kronberg, Leif; Bogentoft, Conny; Westerlund, Douglas; Danielsson, Bengt; Ljungberg, Stellan; Paalzow, Lennart
CORPORATE SOURCE: Dep. Org. Chem., Farmaceut. Fak., Stockholm, Swed.
SOURCE: Acta Pharmaceutica Suecica (1970), 7(1), 37-46
CODEN: APSXAS; ISSN: 0001-6675
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The chemistry and pharmacol. of 26 4-oxoquinazolines and related compds. were studied. I (R = p-ClC6H4, R1 = R2 = H) showed a small anticonvulsant activity. I (R = CH:CHPh or 2-furyl; R1 = R2 = H; or R = Ph, R1 = R2 = Cl) and II had significant antidiuretic activity, while I (R = CH2Ph or CH2CH2PH; R1 = R2 = H; or R = Ph, R1 = Cl, R2 = H) had significant diuretic activity. No correlation was found between the antidiuretic and analgesic activities of the 4 antidiuretics. I (R = Ph, R1 = R2 = H) possessed sedative and spasmolytic activities.
IT 26059-92-7
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmacology of)
RN 26059-92-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-propynyl)- (9CI) (CA INDEX NAME)

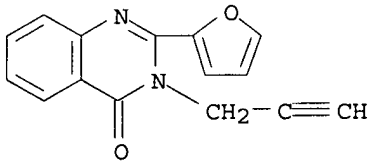


L4 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1970:11916 CAPLUS
DOCUMENT NUMBER: 72:11916
ORIGINAL REFERENCE NO.: 72:2149a,2152a
TITLE: Medicinal chemistry of oxoquinazolines. IV. N- and O-alkylation of some 2-substituted 3,4-dihydro-4-oxoquinazolines
AUTHOR(S): Bogentoft, Conny; Kronberg, Leif; Danielsson, Bengt
CORPORATE SOURCE: Farm. Fak., Stockholm, Swed.
SOURCE: Acta Pharmaceutica Suecica (1969), 6(4), 489-500
CODEN: APSXAS; ISSN: 0001-6675
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The influence of various substituents at C-2 of the quinazoline system on the relative yields of N-and O-alkylated products upon alkylation of 3, 4-dihydro-4-oxoquinazolines in HCONMe2-NaH has been studied using gas chromatog. A few alkylations of 3-phenylisocarbostyril were also studied. Most of the results are possible to explain in terms of steric hindrance. The influence of the orientation of a benzene ring, attached to C-2 of the quinazoline is also discussed.
IT 26059-84-7

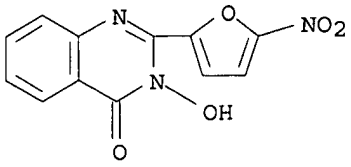
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



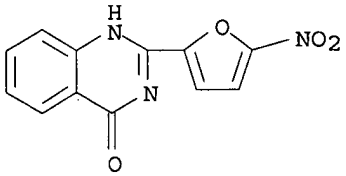
IT 26059-92-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 26059-92-7 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(2-propynyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1969:3895 CAPLUS
DOCUMENT NUMBER: 70:3895
ORIGINAL REFERENCE NO.: 70:721a,724a
TITLE: Studies on heteroaromaticity. XVI. Further studies on the thermal 1,3-dipolar cycloaddition reactions of some aromatic hydroxamoyl chlorides
AUTHOR(S): Sasaki, Tadashi; Yoshioka, Toshiyuki
CORPORATE SOURCE: Nagoya Univ., Nagoya, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1968), 41(9), 2206-10
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 70:3895
AB The thermal 1,3-dipolar cycloaddn. of 5-nitro-2-furyl-, phenyl-, p-nitrophenyl-, and m-nitro-phenylhydroxyamoyl chloride to Ph3P, MeCN, PhCN, aromatic aldehydes, quinones, anthranilates, and olefins was examined These thermal 1,3-dipolar cycloaddns. have more versatile applicability than those using the corresponding nitrile oxides. The reaction proceeds with evolution of HCl which is a convenient clue for determining the end-point of the reaction except when basic dipolarophiles are used.
IT 20844-55-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 20844-55-7 CAPLUS
CN 4(3H)-Quinazolinone, 3-hydroxy-2-(5-nitro-2-furyl)- (8CI) (CA INDEX NAME)



L4 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1966:104206 CAPLUS
DOCUMENT NUMBER: 64:104206
ORIGINAL REFERENCE NO.: 64:19608c-d
TITLE: Nitrofuryl heterocycles. IV. 4-Amino-2-(5-nitro-2-furyl)quinazoline derivatives
AUTHOR(S): Burch, Homer A.
CORPORATE SOURCE: Chem. Div., Norwich Pharmacal Co., Norwich, NY
SOURCE: Journal of Medicinal Chemistry (1966), 9(3), 408-10
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 64:104206
AB cf. CA 64, 19596c. Thirty-five 4-(substituted amino)-2-(5-nitro-2-furyl)quinazolines were prepared and found to possess broad in vitro antibacterial activity against a variety of organisms. Several compds. were also active in vivo against Staphylococcus aureus infections. The most active compound contained the 4-bis(2-hydroxyethyl)amino group. A new mol. grouping responsible for enhancing the antibacterial activity of nitrofurans is postulated.
IT 6023-96-7P, 4(3H)-Quinazolinone, 2-(5-nitro-2-furyl)-
RL: PREP (Preparation)
(preparation of)
RN 6023-96-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-nitro-2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:144241 CAPLUS
DOCUMENT NUMBER: 55:144241
ORIGINAL REFERENCE NO.: 55:27338g-i,27339a-i,27340a-b
TITLE: Preparation of derivatives of trimethoxybenzene
AUTHOR(S): Dallacker, F.; Meunier, Edith; Limpens, J.; Lipp, Maria
CORPORATE SOURCE: Tech. Hochschule, Aachen, Germany
SOURCE: Monatshefte fuer Chemie (1960), 91, 1077-88
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 55:144241
AB An aqueous NaOH solution of 3,4,5-(MeO)3C6H2CO2H with excess Me2SO4 at

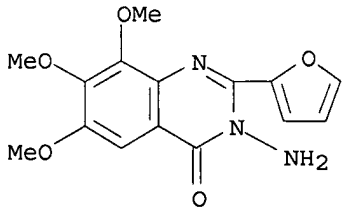
50-60° gave 75% 3,4,5-(MeO)3C6H2CO2Me, b10 166-7°, m. 83°, nitrated at 0° with HNO3 (d. 1.42) in Ac2O to give 55% 2,3,4,5-O2N(MeO)3C6HCO2Me (I), yellow needles, m. 67° (ligroine). Reduction of I in AcOH (Raney Ni) gave 75-80% of the Me ester (II), b1.5 138-40°, m. 40°, of 2,3,4,5-H2N(MeO)3C6HCO2H (III). II.HCl m. 164°. Reduction of I in 1:2 AcOH-iso-PrOH gave 10% III iso-Pr ester, m. 111° (iso-PrOH). II (5 g.) in 50 cc. iso-PrOH and 10 cc. N2H4.H2O was refluxed 8 hrs. and the mixture concentrated in vacuo to give 82% hydrazide (IV) of III, m. 117° (decomposition) (C6H6). IV (2 g.) in 1 l. iso-PrOH was refluxed with Raney Ni to end of formation of NH3, and the mixture filtered hot and concentrated to crystallization to give 77% amide of III, m. 134° (cyclohexane). II (8 g.) heated a short time with 20 cc. Ac2O or (F3CCO)2O, gave resp. the N-Ac derivative (V), m. 93-4° (aqueous iso-PrOH) (65% yield), and the N-OCCF3 derivative (VI), m. 77-8° (cyclohexane) (77% yield). II (8 g.) in 100 cc. dioxane and 4 cc. C5H5N was treated with equimol. amts. of RCOCl in 20 cc. dioxane, the mixture heated at 100°, filtered from C5H5N.HCl, evaporated in vacuo, and the residue recrystd. The following N-OCR derivs. of II were prepared (R, m.p., and % yield given): Ph, 95° (cyclohexane), 75 (VII); p-ClC6H4, 111-12° (iso-PrOH), 60; PhCH2, 100° (cyclohexane), 91; Ph(CH2)3, 114° (cyclohexane), 90; -C :- CH.CH:CH.O, 108° (aqueous iso-PrOH), 66; 3-C5H4N, an oil (not purif.), -. The N-acyl derivs. of II and a 10 mole excess of N2H4.H2O in iso-PrOH were refluxed 10 hrs. and concentrated in vacuo to crystallization to yield the 2-R-substituted-3-amino-6,7,8-trimethoxy-4-quinazolone (R, m.p., and % yield given): Me, 155° (C6H6), 71 (VIII); Ph, 170° (isoPrOH), 90 (IX); p-C6H4, 191° (cyclohexane-C6H6), 65; PhCH2, 142° (iso-PrOH), 70; Ph(CH2)3, 92° (C6H6), 98; -C:CH.CH:CH.O, 189° (decomposition) (iso-PrOH), 77; 3-C5H4N, 186° (decomposition) (iso-PrOH), 50. In this reaction, VI formed only 2,3,4,5-F3CCOHN(MeO)3C6HCO-NHNH2. Equimol. amts. of VIII and OHCC:CH.CH:CH.NH, warmed and cooled gave 63% crystals of 3-(2-pyrrylideneamino)-2-methyl-6,7,8-trimethoxy-4-quinazolone, m. 215° (dioxane). Deamination of IX with Raney Ni in iso-PrOH gave 72% 2-phenyl-6,7,8-trimethoxy-4-quinazolone (X), m. 245° (C6H6 or iso-PrOH). An Ac2O solution of 1,2,3,4,5-(HO2C)2(MeO)3C6H (XI) was heated to boiling and the mixture evaporated in vacuo to give the anhydride (XII), m. 140° (C6H6) (77% yield). XII, refluxed with excess N2H4. H2O and the mixture concentrated yielded 72% 6,7,8-trimethoxy-1,4-dioxotetrahydrophthalazine, m. 235° (aqueous MeOH). To 2.9 g. LiAlH4 in tetrahydrofuran was added dropwise 5 g. XI in tetrahydrofuran, the mixture refluxed 4 hrs., kept 10 hrs. at room temperature, excess LiAlH4 decomposed, the mixture poured on ice, saturated with NaCl, extracted with CHCl3, and the solvent distilled to give 82% 1,2,3,4,5-(HOCH2)2(MeO)3C6H (XIII), m. 78-9° (iso-Pr2O). Treating an MeaCO solution of 1,2,3-(HO)3C6H3 and Me2SO4 with K2CO3 gave 60% 1,2,3-(MeO)3C6H3 (XIV), b12 117°, m. 45°. HCl was bubbled with strong stirring into 50 g. XIV and 20 g. paraformaldehyde in 200 cc. AcOH 5 hrs. at 35°, the mixture poured on ice, the oily layer separated, the aqueous layer extracted with Et2O, and the combined organic phases washed successively with H2O, 10% Na2CO3, H2O, dried, and fractionated to give 50% 1,5,2,3,4-(ClCH2)2(MeO)3C6H (XV), b10 167°, m. 43°. XLV (100 g.) was added slowly at -5° to 46.5 g. paraformaldehyde in 600 cc. 64% HBr, the mixture stirred 1 hr. at 0°, 3 hrs. at 40°, and worked up as for XV to produce 1,5,2,3,4-(BrCH2)2(MeO)3C6H (XVI), m. 58.5°, b4 165-70°, in 20-40% yield. XVI and Me3N gave 62% the bis-Me3N salt, m. about 190° (iso-PrOH) (decomposition). Similarly, the bis-Et3N salt, decomposing

about 179° (50% EtOH), and the bis-3-H2NOCC5H4N salt, decomposing about 180° (50% EtOH) were prepared in 82 and 95% yields resp. XV and NaI in Me2CO gave 56.5% 1,5,2,3,4-(ICH2)2(MeO)3C6H, (XVII) m. 70.5° (iso-PrOH). XVII gave bis-salts (crystallized from 50% EtOH) with (amine, % yield, and m.p. given): Me3N, 67, 183° (decomposition); Et3N, 68, 182° (decomposition); 3-H2NOCC5H4N, 82, decomposed about 125°. XV (0.06 mole) was refluxed 5 hrs. with 0.14 mole KOAc in 200 cc. AcOH, the solvent evaporated, and the residue poured into H2O, washed with H2O, and crystallized from EtOH to give quant. 1,5,2,3,4(AcOCH2)2(MeO)3C6H (XVIII), m. 101.5° (EtOH). XVIII (9 g.), 21 g. KOH, 80 cc. H2O, and 40 cc. EtOH were refluxed 3 hrs., saturated with NaCl, extracted with several 200-cc. portions of Et2O, and the Et2O exts. evaporated to give 38% 1,5,2,3,4-(HOCH2)2(MeO)3C6H (XIX), m. 78-9° (cyclohexane). XVIII (30 g.) was placed in a Soxhlet and gradually extracted into a refluxing suspension of 10 g. LiAlH4 in 1 l. absolute Et2O, excess LiAlH4 decomposed with EtOAc and H2O, and the Et2O solution dried and evaporated to give 73% XIX, crystallized from iso-Pr2O. A solution of 14 g. XV and 21 g. hexamethylenetetramine was refluxed 2 hrs., treated with 15 cc. concentrated HCl, refluxed 5 min., the cooled mixture extracted with 750-cc. vols. Et2O, and the dried exts. distilled to give 1,5,2,3,4(OHC)2(MeO)3C6H (XX), m. 98.5° (Et2O), in 10% yield. Heating an aqueous suspension of XIX at 50-60° with aqueous KMnO4, filtering hot, and acidifying the concentrated solution with HCl gave 84% 1,5,2,3,4-(HO2C)2(MeO)3C6H (XXI) which was refluxed with SOCl2 to give the crude acid dichloride (XXII), m. 63°. Adding XXII to NH3 in MeOH, refluxing, cooling, and filtering gave the diamide of XXI, m. 221° (iso-PrOH) in 93% yield. Similarly XXII and p-ClC6H4NH2 in dioxane and N-methylmorpholine gave 85% the di-p-chloroanilide of XXI, m. 250° (dioxane). XXII (11 g) was stirred at 0° into an Et2O solution containing 3 times the theoretical amount of CH2N2, and kept 10-15 hrs. at 0° to precipitate 62% 1,5,2,3,4(N2CHCO)2(MeO)3C6H, m. 103° (decomposition) (cyclohexane). The infrared spectra of some of the compds. were determined Converting IX to X permitted the formation of the tautomers (-C:ONH- .dblharw. -HOC:N-), shown by broad absorption bands at 3.15 and 3.30 μ.

IT 106883-24-3P, 4(3H)-Quinazolinone, 3-amino-2-(2-furyl)-6,7,8-trimethoxy-
RL: PREP (Preparation)
(preparation of)

RN 106883-24-3 CAPLUS

CN 4(3H)-Quinazolinone, 3-amino-2-(2-furyl)-6,7,8-trimethoxy- (6CI) (CA INDEX NAME)



L4 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1957:39274 CAPLUS

DOCUMENT NUMBER: 51:39274

ORIGINAL REFERENCE NO.: 51:7380a-i

TITLE: Synthesis of 2,3,5,6-substituted 4-pyrimidones

AUTHOR(S): Staskun, Benjamin; Stephen, Henry

10/ 567,660

CORPORATE SOURCE: Univ. Witwatersrand Johannesburg, S. Afr.
SOURCE: Journal of the Chemical Society (1956) 4708-10
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 51:39274

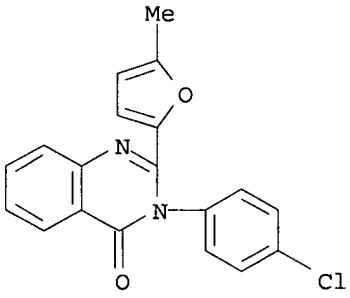
AB 2,3,5,6-Substituted 4-pyrimidones (I) were readily synthesized by condensation of imidoyl chlorides (II) with Me or Et α-alkyl-β-aminocrotonates (III). The following general procedure was used: II (0.01 mole) and III (0.005, 0.01, or 0.02 mole) were refluxed 3-4 hrs. in 40 cc. dry CHCl3 (method A) or allowed to remain at room temperature 2-3 days (method B). In some cases II and III were heated in the absence of a solvent (method C), HCl and alc. being evolved. The products were acidified with dilute HCl and steam distilled; this hydrolyzed any unchanged ester to steam volatile or H2O soluble products, and converted unchanged II to the amide. After cooling, the latter was removed, and the filtrate treated with C and NH3 deposited crude I which crystallized from dilute MeOH or alc. in colorless needles. The following I were prepared by the above methods (R and R substituents in II (RCCl:NR'), R'' and X in III (MeC(NH2):CR''CO2X), molar ratio II:III, method, reaction temperature, reaction time in hrs., % yield, and m.p. given): Ph, Ph, Me, Me, 1:1, C, 140°, 0.5, -, -; Ph, Ph, Me, Et, 1:1, C, 140°, 0.5, 45, 157°; Ph, Ph, Et, Et, 1:2, A, -, 4, 79, 159°; Ph, o-C6H4Me, Me, Me, 1:1, A, -, 3, 53, 114°; Ph, o-C6H4Me, Et, Et, 1:2, A, -, 4, 80, 152°; Ph, m-C6H4Me, Me, Me, 1:1, C, 100°, 0.5, 31, 129°; Ph, m-C6H4Me, Me, Et, 1:1, C, 100°, 0.5, 28, -; Ph, m-C6H4Me, Et, Me, 1:1, C, 100°, 0.5, 77, 136°; Ph, m-C6H4Me, Et, Et, 1:2, A, -, 3, -, -; Ph, p-C6H4Me, Me, Me, 1:2, A, -, 3, 77, 146°; Ph, p-C6H4Me, Et, Et, 1:2, B, -, 3, 75, 152°; Ph, 2,4,1-Me2C6H3, Me, Me, 2:1, A, -, 3, 83, 152°; Ph, 2,4,1-Me2C6H3, Me, Et, 2:1, A, -, 3, -, -; Ph, 2,4,1-Me2C6H3, Et, Et, 2:1, A, -, 3, 83, 146°; Ph, p-MeOC6H4, Et, Et, 1:2, B, -, 3, 81, 161°; Ph, p-MeOC6H4, Pr, Me, 1:2, C, 155°, 0.5, 55, 163°; Ph, m-O2NC6H4, Me, Me, 1:2, C, 140°, 0.5, 62, 159°; Ph, m-O2NC6H4, Me, Et, 1:2, C, 140°, 0.5, 34, -; Ph, m-O2NC6H4, Et, Me, 1:2, C, 140°, 0.5, 24, 160°; Ph, m-O2NC6H4, Et, Et, 1:2, C, 140°, 0.5, 38, -; Ph, 1-C10H7, Me, Et, 1:2, A, -, 3, 64, 174°; Ph, 2-C10H7, Me, Et, 1:2, A, -, 3, 50, 189°; Ph, 2-C10H7, Et, Et, 1:2, A, -, 3, 40, 184°; Ph, o-C6H4Cl, Me, Et, 2:1, A, -, 3, 13, 151°; Ph, o-C6H4Cl, Et, Et, 2:1, C, 170°, 0.5, 32, 192°; Ph, m-C6H4Cl, Me, Me, 1:1, C, 150°, 0.5, 35, 152°; Ph, p-C6H4Cl, Et, Et, 1:2, C, 185°, 0.5, 59, 148°; Ph, p-C6H4Cl, Pr, Me, 1:2, C, 185°, 0.5, 37, 154°; Ph, Et, Et, Et, 1:2, B, -, 3, 73, 82°; Ph, Et, Me, Et, 1:2, B, -, 3, 51, 118°; o-C6H4Me, Ph, Me, Me, 2:1, A, -, 3, 80, 112°; o-C6H4Me, Ph, Et, Et, 2:1, A, -, 3, 74, 137°; p-C6H4Cl, Ph, Et, Et, 1:2, C, 155°, 0.5, 67, 146°; p-C6H4Cl, Ph, Pr, Me, 1:2, C, 155°, 0.5, 21, 151°; 3,4,5-(MeO)3C6H2, Ph, Me, Me, 1:2, A, -, 3, 20, 181°; 3,4,5-(MeO)3C6H2, Ph, Et, Et, 1:2, A, -, 3, 37, 129°. The synthesis of I was modified by preparing II by rearrangement of ketoximes (IV) with PCl5. The following procedures were used. A solution of IV (0.01 mole) in 50 cc. CHCl3 was treated at 0° with 0.01 mole PCl5, the whole shaken 1-2 min., and the solution treated by one of the following procedures. The solution refluxed 15 min. to complete the rearrangement of IV, the III (0.02-0.03 mole) added in 10 cc. CHCl3, and reflux continued 2-3 hrs. (method D). Alternatively, the solution after remaining 2 hrs. at room temperature was cooled to 10°, the III (0.02-0.03 mole) in 10 cc. CHCl3 added, and the mixture left 1-2 days at room temperature (method E). The following method (F) gave good yields of I. The solution of rearranged IV, after 2 hrs. at room temperature was distilled at 40-5°/30 min., then stored

1-2 days with 0.02-0.03 mole III, and the products treated as previously described. I were crystallized as colorless needles from MeOH or alc. The following results were obtained (IV, R'' in III, method, % yield, and m.p. of I given): PhMeC:NOH, Et, E, 65, 126°; (p-MeC6H4)MeC:NOH, Et, E, 65, 82°; (p-MeC6H4)MeC:NOH, Me, D, 65, 146°; 2-C10H7CMe:NOH, Et, F, 65, 130°; PhPrC:NOH, Et, E, 72, 106°; PhPrC:NOH, Me, E, 35, 73°; (p-MeC6H4)2C:NOH, Me, F, 73, 128°; (p-MeC6H4)2C:NOH, Et, F, 60, 140°; Ph2C:NOH, Et, D, 55, 157°. Improved yields of I were obtained by using excess II or III.

IT 101883-87-8 108124-39-6 109980-88-3
110193-97-0 110193-98-1 110194-40-6
111797-46-7 111797-47-8 111798-21-1
(Derived from data in the 6th Collective Formula Index (1957-1961))

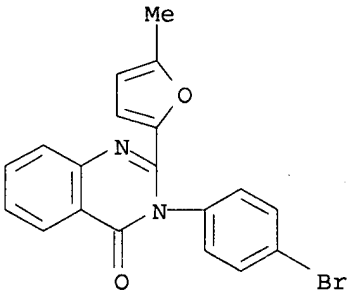
RN 101883-87-8 CAPLUS

CN 4(3H)-Quinazolinone, 3-(p-chlorophenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



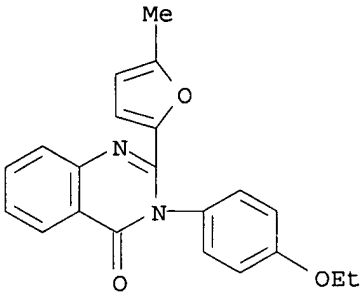
RN 108124-39-6 CAPLUS

CN 4(3H)-Quinazolinone, 3-(p-bromophenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)

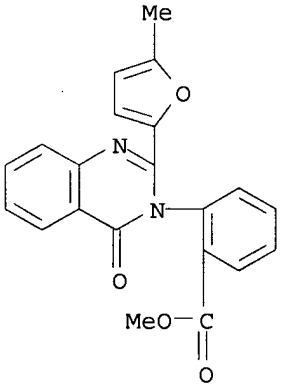


RN 109980-88-3 CAPLUS

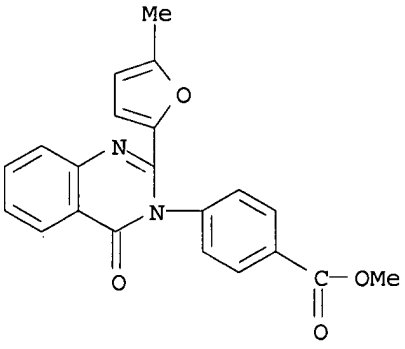
CN 4(3H)-Quinazolinone, 3-(p-ethoxyphenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



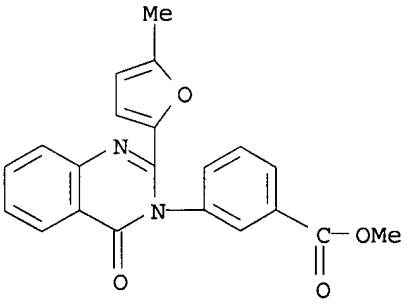
RN 110193-97-0 CAPLUS
CN Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



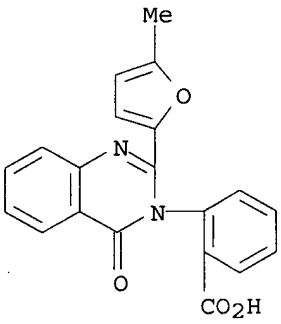
RN 110193-98-1 CAPLUS
CN Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



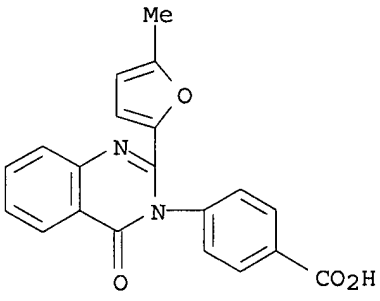
RN 110194-40-6 CAPLUS
CN Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



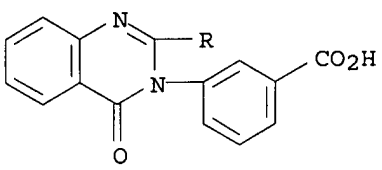
RN 111797-46-7 CAPLUS
CN Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)

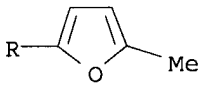


RN 111797-47-8 CAPLUS
CN Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)

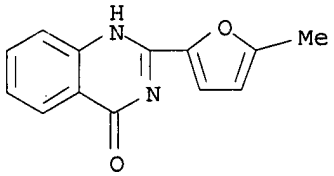


RN 111798-21-1 CAPLUS
CN Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)





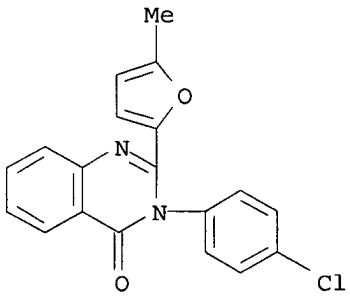
L4 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1957:39273 CAPLUS
DOCUMENT NUMBER: 51:39273
ORIGINAL REFERENCE NO.: 51:7379i,7380a
TITLE: Furylquinazolines. 2-(5-Methyl-2-furyl)-3-aryl-4-quinazolones
AUTHOR(S): Pappalardo, G.; Tornetta, B.
CORPORATE SOURCE: Univ. Catania, Italy
SOURCE: Bollettino delle Sedute della Accademia Gioenia di Scienze Naturali in Catania (1955), 3, 59-64
CODEN: BOGCAB; ISSN: 0366-1768
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB By the method of Grimmel, et al. (C.A. 40, 34574), the following o-C6H4.CO.N(C6H4X).CY:N (Y = 5-methyl-2-furyl), where X is H, p-Me, p-MeO, p-EtO, p-Cl, p-Br, o-HO2C, m-HO2C, p-HO2C (I), o-MeO2C, m-MeO2C (II), or p-MeO2C, were prepared, m. 235°, 216°, 232°, 220°, 239°, 245°, 228°, 268°, 271°, 210°, 178°, and 213°, resp. The substances were purified by crystallization (needles, prisms, rhombs) from 75% AcOH (absolute MeOH for I and II) in yields of 60, 40, 42, 58, 48, 58, 76, 72, 49, 63, 45, and 42%, resp.
IT 128373-25-1, 4(3H)-Quinazolinone, 2-(5-methyl-2-furyl)-
(3-aryl derivs.)
RN 128373-25-1 CAPLUS
CN 4(1H)-Quinazolinone, 2-(5-methyl-2-furanyl)- (9CI) (CA INDEX NAME)



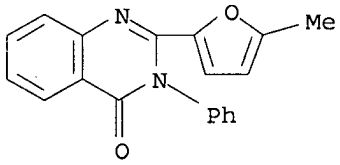
IT 101883-87-8P, 4(3H)-Quinazolinone, 3-(p-chlorophenyl)-2-(5-methyl-2-furyl)- 101936-35-0P, 4(3H)-Quinazolinone, 2-(5-methyl-2-furyl)-3-phenyl- 102007-00-1P, 4(3H)-Quinazolinone, 2-(5-methyl-2-furyl)-3-p-tolyl- 102007-27-2P, 4(3H)-Quinazolinone, 3-(p-methoxyphenyl)-2-(5-methyl-2-furyl)- 108124-39-6P, 4(3H)-Quinazolinone, 3-(p-bromophenyl)-2-(5-methyl-2-

furyl)- 109980-88-3P, 4(3H)-Quinazolinone, 3-(p-ethoxyphenyl)-2-(5-methyl-2-furyl)- 110193-97-0P, Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester 110193-98-1P, Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester 110194-40-6P, Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester 111797-46-7P, Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- 111797-47-8P, Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- 111798-21-1P, Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-
RL: PREP (Preparation)
(preparation of)

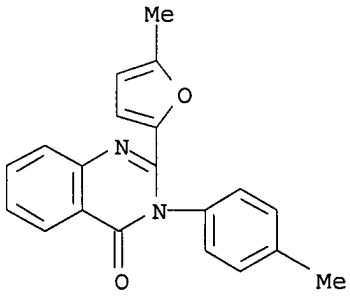
RN 101883-87-8 CAPLUS
CN 4(3H)-Quinazolinone, 3-(p-chlorophenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



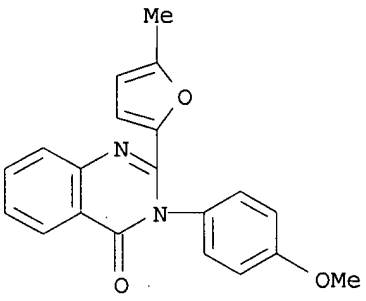
RN 101936-35-0 CAPLUS
CN 4(3H)-Quinazolinone, 2-(5-methyl-2-furyl)-3-phenyl- (6CI) (CA INDEX NAME)



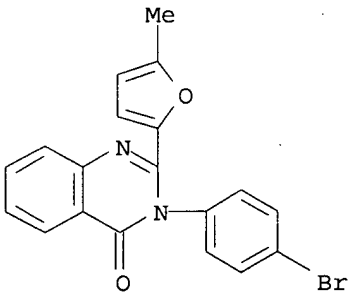
RN 102007-00-1 CAPLUS
CN 4(3H)-Quinazolinone, 2-(5-methyl-2-furyl)-3-p-tolyl- (6CI) (CA INDEX NAME)



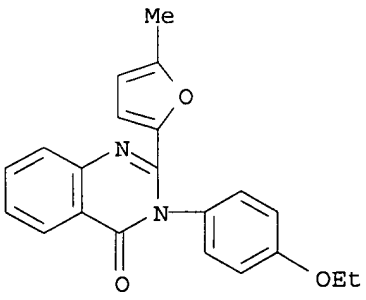
RN 102007-27-2 CAPLUS
CN 4(3H)-Quinazolinone, 3-(p-methoxyphenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



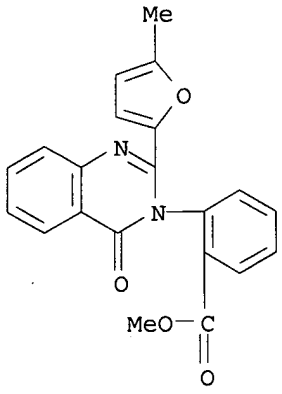
RN 108124-39-6 CAPLUS
CN 4(3H)-Quinazolinone, 3-(p-bromophenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



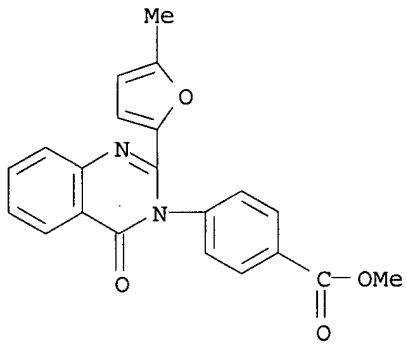
RN 109980-88-3 CAPLUS
CN 4(3H)-Quinazolinone, 3-(p-ethoxyphenyl)-2-(5-methyl-2-furyl)- (6CI) (CA INDEX NAME)



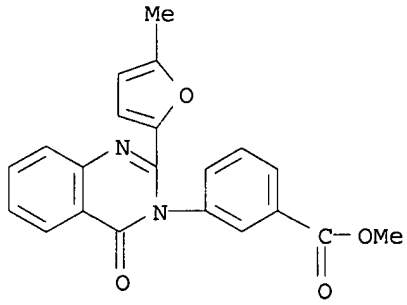
RN 110193-97-0 CAPLUS
CN Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



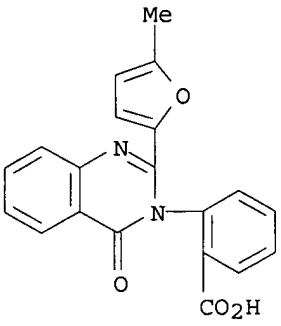
RN 110193-98-1 CAPLUS
CN Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



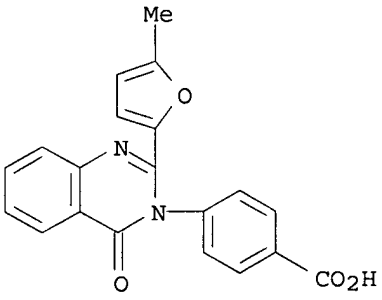
RN 110194-40-6 CAPLUS
CN Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]-, methyl ester (6CI) (CA INDEX NAME)



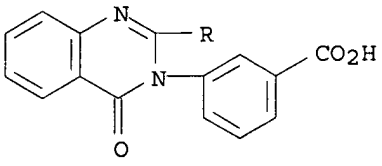
RN 111797-46-7 CAPLUS
CN Benzoic acid, o-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)

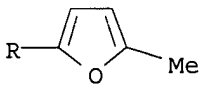


RN 111797-47-8 CAPLUS
CN Benzoic acid, p-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)



RN 111798-21-1 CAPLUS
CN Benzoic acid, m-[2-(5-methyl-2-furyl)-4-oxo-3(4H)-quinazolinyl]- (6CI) (CA INDEX NAME)



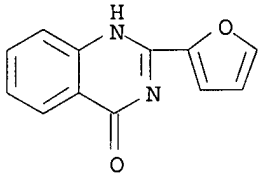


L4 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1955:8296 CAPLUS
DOCUMENT NUMBER: 49:8296
ORIGINAL REFERENCE NO.: 49:1731a-c
TITLE: Furyl quinazolines-2-(2-furyl)-3-aryl-4-quinazolones
AUTHOR(S): Andrisano, Renato; Pappalardo, Giovanni
CORPORATE SOURCE: Univ. Catania, Italy
SOURCE: Annali di Chimica (Rome, Italy) (1953), 43, 723-6

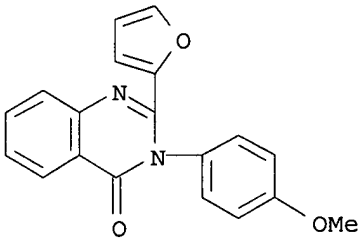
CODEN: ANCRAI; ISSN: 0003-4592
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB Based on the concept that a quaternary C bonded to a tertiary N confers high anesthetic activity to a compound, a number of 2-(2-furyl)-3-aryl-4-quinazolones were prepared The scheme of Grimmel, et al. (C.A. 40, 3457.4) of condensing N-furoylanthranilic acid with aromatic amines with PCl3 was used, except for the o- and m-H2NC6H4CO2H, which did not condense by this procedure. Such derivs. were prepared by hydrolysis of the Me esters. To o-H2NC6H4CO2H(0.1 mole) in 400 cc. C6H6 and 0.1 mole Na2CO3 was dropped 0.1 mole furoyl chloride, the mixture refluxed 1 hr., and the separated solid dissolved in H2O and acidified, to give 66% N-(2-furoyl)anthranilic acid (I), m. 218°. To a suspension of 0.1 mole I in 200 cc. PhMe and 0.1 mole aryl amine was added in 15 min., dropwise, 20 cc. of 4.6 g. (0.033 mole) PCl3 in PhMe, the mixture refluxed 2 hrs., made alkaline with Na2CO3, and cooled gave a solid product upon evaporating the solvent. A series of new compds. were prepared in which the 3-aryl group possessed a substituent X, as follows: X=H, m. 215; p-Me, m. 228; p-OMe, m. 204; p-OEt, m. 216; p-Cl, m. 205; p-Br, m. 200; o-CO2H, m. 245; m-CO2H, m. 249; p-CO2H, m. 265; o-CO2Me, m. 180; m-CO2Me, m. 213; p-CO2Me, m. 235 (m.ps. in °C.).

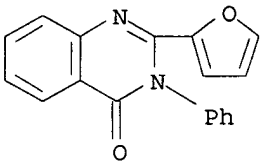
IT 26059-84-7, 4(3H)-Quinazolinone, 2-(2-furyl)-
(3-aryl derivs.)
RN 26059-84-7 CAPLUS
CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



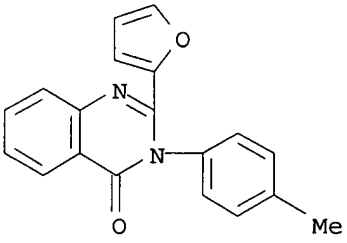
IT 35868-41-8P, 4(3H)-Quinazolinone, 2-(2-furyl)-3-(p-methoxyphenyl)-
62820-49-9P, 4(3H)-Quinazolinone, 2-(2-furyl)-3-phenyl-
62820-50-2P, 4(3H)-Quinazolinone, 2-(2-furyl)-3-p-tolyl-
62820-51-3P, 4(3H)-Quinazolinone, 3-(p-ethoxyphenyl)-2-(2-furyl)-
63314-19-2P, 4(3H)-Quinazolinone, 3-(p-chlorophenyl)-2-(2-furyl)-
330188-78-8P, 4(3H)-Quinazolinone, 3-(p-bromophenyl)-2-(2-furyl)-
857538-29-5P, 4(3H)-Quinazolinone, 3-[p-carboxyphenyl]-2-(2-furyl)-
857538-31-9P, Benzoic acid, o-[2-(2-furyl)-4-oxo-3-(4H)-quinazolinyl]-, methyl esters 857538-33-1P, 4(3H)-Quinazolinone, 3-[m-carboxyphenyl]-2-(2-furyl)-
RL: PREP (Preparation)
(preparation of)
RN 35868-41-8 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methoxyphenyl)- (CA INDEX NAME)



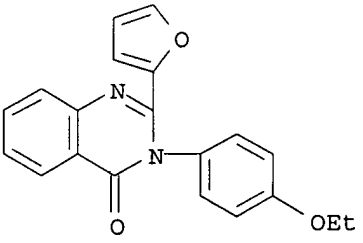
RN 62820-49-9 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-phenyl- (CA INDEX NAME)



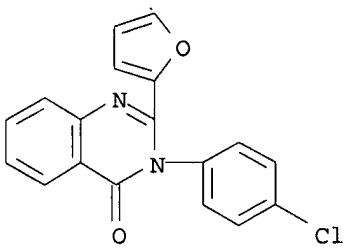
RN 62820-50-2 CAPLUS
CN 4(3H)-Quinazolinone, 2-(2-furanyl)-3-(4-methylphenyl)- (CA INDEX NAME)



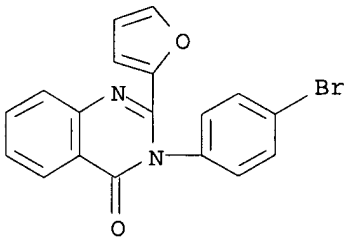
RN 62820-51-3 CAPLUS
CN 4(3H)-Quinazolinone, 3-(4-ethoxyphenyl)-2-(2-furanyl)- (CA INDEX NAME)



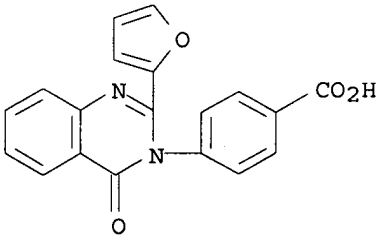
RN 63314-19-2 CAPLUS
CN 4(3H)-Quinazolinone, 3-(4-chlorophenyl)-2-(2-furanyl)- (CA INDEX NAME)



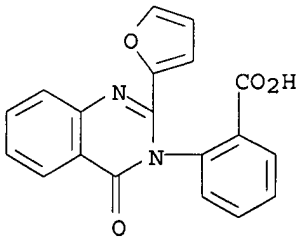
RN 330188-78-8 CAPLUS
CN 4(3H)-Quinazolinone, 3-(4-bromophenyl)-2-(2-furanyl)- (CA INDEX NAME)



RN 857538-29-5 CAPLUS
CN Benzoic acid, 4-[2-(2-furanyl)-4-oxo-3(4H)-quinazolinyl]- (CA INDEX NAME)

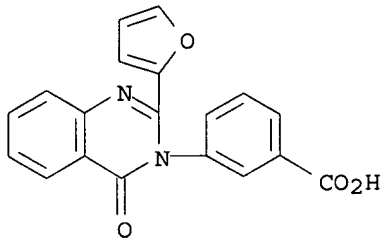


RN 857538-31-9 CAPLUS
CN Benzoic acid, o-[2-(2-furyl)-4-oxo-3-(4H)-quinazolinyl]- (5CI) (CA INDEX NAME)



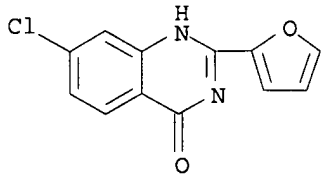
RN 857538-33-1 CAPLUS
CN Benzoic acid, m-[2-(2-furyl)-4-oxo-3-(4H)-quinazolinyl]- (5CI) (CA INDEX

NAME)

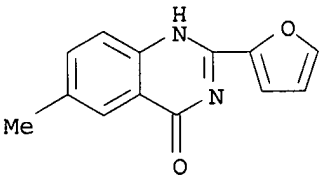


L4 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1951:21794 CAPLUS
DOCUMENT NUMBER: 45:21794
ORIGINAL REFERENCE NO.: 45:3852c-g
TITLE: Furylquinazolines. III. 4-Substituted 2-furyl-4-chloroquinazolines
AUTHOR(S): Andrisano, R.; Modena, G.
CORPORATE SOURCE: Univ., Bologna, Italy
SOURCE: Gazzetta Chimica Italiana (1950), 80, 321-4
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 45:21794
AB cf. C.A. 45, 1601d; following abstract In view of the high anti-malarial power of 4-(4-diethylamino-1-methylbutylamino)-7-chloroquinazoline (cf. Price, et al., C.A. 40, 5747.4), its 2-(2-furyl) derivative (I) was prepared 4,2-Cl(H2N)C6H3CO2H (10 g.) and 12 g. Et 2-furancarboximidate [cf. Ber. 25, 1416(1892)], heated 2 hrs. at 200°, the product taken up in MeOH, filtered, and the residue purified by AcOH, yield 2-(2-furyl)-4-hydroxy-7-chloroquinazoline (II), m. 276°. II (10 g.) in 80 cc. POCl3 and 14 g. PCl5, refluxed 90 min., distilled in vacuo, the residue taken up in ice water, neutralized with NH4OH, filtered, and the residue extracted with C6H6, yields 9.5 g. (88%) of 2-(2-furyl)-4,7-dichloroquinazoline (III), m. 137°. III (5.3 g.) and 6.4 g. H2NCHMeCH2CH2CH2NEt2 in 80 cc. C6H6, neutralized by Na2CO3, refluxed 3 hrs., and the product steam-distilled, yield almost 100 % I, m. 112°. With alc. picric acid, it forms a picrate, C33H33O15N10Cl, m. 199°. Since the Cl in the 4-position in III, like that in the chloroquinazolines already described (cf. C.A. 45, 1600f) is reactive with nucleophilic agents, 6 compds. were prepared by replacement of the Cl. III (0.01 mol.) and NaOMe (from 0.03 atom Na in 40 cc. MeOH), refluxed 30 min., diluted with water, and the precipitate purified by ligroin, yields 2-(2-furyl)-4-methoxy-7-chloroquinazoline, m. 130°. III (0.01 mol.) in 20 cc. dioxane and NaOPh (from 0.03 atom Na in 12 g. PhOH), refluxed 30 min., poured into water, NaOH added, and the precipitate purified by aqueous EtOH, yield 100% of the 4-phenoxy analog, m. 140°. Four arylamino derivs. were prepared in high yields by refluxing 0.01 mol. III and 0.02 mol. of the resp. arylamine 1 hr. in C6H6, making alkaline with Na2CO3, and steam-distilling 2-(2-Furyl)-4-phenylamino-7-chloroquinazoline, m. 170° (from EtOH); 4-tolylamino analog, m. 201° (from ligroin); 4-methoxyphenylamino analog, m. 189° (from EtOH); 4-ethoxyphenylamino analog, m. 180° (from EtOH).
IT 412342-08-6P, 4-Quinazolinol, 7-chloro-2-(2-furyl)-

RL: PREP (Preparation)
(preparation of)
RN 412342-08-6 CAPLUS
CN 4(1H)-Quinazolinone, 7-chloro-2-(2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1951:8789 CAPLUS
DOCUMENT NUMBER: 45:8789
ORIGINAL REFERENCE NO.: 45:1601c-g
TITLE: Furylquinazolines. II. 4-Substituted 2-furyl-6-methylquinazolines
AUTHOR(S): Andrisano, R.; Modena, G.
CORPORATE SOURCE: Univ., Bologna, Italy
SOURCE: Bollettino Scientifico della Facolta di Chimica Industriale di Bologna (1950), 8, 1-3
CODEN: BSFCAY; ISSN: 0366-3205
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. preceding abstract 5,2-Me(H2N) C6H3CO2Me (22 g.) and 24 g. Et 2-furanacetimidate (cf. Pinner, Ber. 25, 1416(1892)), heated at 200° for 1.5 hrs., taken up in MeOH after cooling, filtered, washed, and dried, yield 18.5 g. (61%) 2-furyl-4-hydroxy-6-methylquinazoline (I), silky needles from EtOH, m. 257°. I (16.8 g.) is refluxed with 100 cc. POCl3 and 24 g. PCl5 for 1.5 hrs., the excess POCl3PCl5 removed under reduced pressure, the residue taken up with H2O and ice, neutralized with NH4OH, filtered, washed, and dried to yield after recrystn. from C6H6 14 g. (77%) 4-Cl analog (II), prisms from ligroin, m. 144°. Refluxing 5 g. II and 6.5 g. Et2N(CH2)3CHMeNH2 in 75 cc. C6H6, and removing the C6H6 and excess base with steam gives in almost quant. yield the 4-(5-diethylamino-2-pentylamino) analog, needles, b9 280°, m. 144° (from ligroin); picrate, needles from EtOH, m. 180°. II (0.01 mol.), refluxed with 0.03 atom Na in 40 cc. MeOH for 0.5 hr. and poured into H2O, yields almost quantitatively the 4-MeO analog, colorless prisms from ligroin, m. 116°. Similarly, 0.01 mol. II, 0.03 atom Na, and 12 g. PhOH in 20 cc. dioxane give the 4-PhO analog, colorless prisms from ligroin, m. 141°. The following 2-furyl-4-arylamino-6-methylquinazolines are obtained in almost quant. yield by refluxing 0.01 mol. II with 0.02 mol. of the corresponding arylamine in 40 ml. C6H6, making alkaline with Na2CO3, and removing the solvent and excess amine with steam: PhNH, needles from aqueous EtOH, m. 180°; MeC6H4NH, needles from EtOH, m. 140°; p-MeOC6H4NH, needles from ligroin, m. 156°; p-EtOC6H4NH, silky needles from MeOH, m. 126°.
IT 858236-99-4P, 4-Quinazolinol, 2-(2-furyl)-6-methyl-
RL: PREP (Preparation)
(preparation of)
RN 858236-99-4 CAPLUS
CN 4-Quinazolinol, 2-(2-furyl)-6-methyl- (5CI) (CA INDEX NAME)



L4 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1951:8788 CAPLUS
DOCUMENT NUMBER: 45:8788
ORIGINAL REFERENCE NO.: 45:1600f-i,1601a-c
TITLE: Furylquinazolines. I. 4-Substituted 2-furylquinazolines
AUTHOR(S): Andrisano, Renato; Modena, G.
CORPORATE SOURCE: Univ. Bologna, Italy
SOURCE: Gazzetta Chimica Italiana (1950), 80, 228-33
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

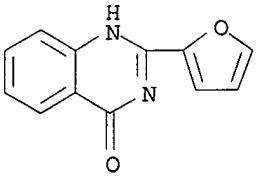
AB cf. following abstract In view of the plasmocidal action of quinazoline derivs. containing a pentylamine side chain (cf. Endicott, et al., C.A. 40, 5748.3; Price, et al., C.A. 40, 5747.4), some 2-furylquinazoline derivs. were prepared to study their anti-malarial activity and the comparative influence on their pharmacol. properties of the Ph and furan ring in the quinazoline nucleus. o-H2NC6H4CO2Me (20 g.) and 20 g. OC4H3C(:NH)OEt [cf. Ber. 25, 1416(1892)], heated 3 hrs. at 210-20°, taken up in MeOH, filtered, and the residue purified by EtOH, yields 74% of 2-furyl-4-hydroxyquinazoline (I), m. 220°. Also, 10.3 g. o-H2NC6H4CO2H and 9.5 g. OC4H3C(:S)NH2 [Hantzsch, Ber. 25, 1314(1892)], heated at 150° until no more H2S is evolved, and the product treated as before, yield approx. 74% I. I (10 g.) in 80 cc. POCl3 and 14 g. PCl5, heated 100 min. (no temperature given), distilled in vacuo, the residue neutralized with NH4OH, mixed with ice water, and the crystallized product dried and extracted with C6H6, yield 9 g. (80%) of 2-furyl-4-chloroquinazoline (II). Hydrolysis by 5% alc. KOH yields I. II (4.1 g.) and 5 g. H2NCHMe(CH2)3NEt2 in 60 cc. C6H6, refluxed 3 hrs., made alkaline with Na2CO3, and steam-distilled, leave a pasty residue which could not be crystallized even after distillation in vacuo (b16 286°). However, with alc. picric acid it formed, after purification by EtOH, a dipicrate, C33H34O15N10, m. 179°, and with H3PO4 a monohydrated diphosphate, C21H36O10N4P2, m. 210°. The wts. of these corresponded to an almost 100% yield of 2-furyl-4-(4-diethylamino-1-methylbutylamino)quinazoline (III). III is also formed by the same procedure, but in the presence of PhOH without solvent. II (0.01 mol.) and alc. NaOMe (from 0.03 atom Na in 40 cc. MeOH), refluxed 1 hr., diluted with water, extracted with Et2O, the extract evaporated, and the oil residue distilled in vacuo (b16 212°), give, after purification by ligroin, a good yield of 2-furyl-4-methoxyquinazoline, m. 65°. II (0.01 mol.) and NaOPh (from 0.03 atom Na, 12 g. PhOH, and 20 cc. dioxane), refluxed 1 hr., poured into water, and NaOH added, give, after purification by ligroin, almost 100% of 2-furyl-4-phenoxyquinazoline (IV), m. 135°. Alc. II, treated while refluxing with anhydrous NH3 for 1 hr., diluted with water, and the precipitate purified by EtOH, yields almost 100% 2-furyl-4-aminoquinazoline, m. 225°. II (0.01 mol.) in C6H6 and 0.02 mol. of

arylamine in 40 cc. C6H6, refluxed 1 hr., made alkaline with Na2CO3, steam-distilled, and the residues purified by EtOH, yielded almost 100% of the following 2-furyl-4-(arylamino)quinazolines: NHPh, m. 115°; NHC6H4Me, m. 133°; NHC6H4OMe, m. 110°; NHC6H4OEt, m. 105°. The extreme reactivity of the Cl in II is similar to the behavior of Cl in 2,4,1-(O2N)2C10H5Cl (cf. Mangini and Frenguelli, C.A. 32, 1258.3) and the Cl in 4-chloroquinazoline (cf. Tomisek and Christiensen, C.A. 32, 1259.1). This is in harmony with the theory of Bonino and the expts. of Mangini and Frenguelli (Atti accad. sci. Bologna [10] 1, 201(1944); C.A. 33, 5398.6), and of the pharmacol. expts. of Erlenmeyer (C.A. 41, 1671g) concerning the analogy between the heterocyclic N atom and the aromatic CNO2 group, which, by strongly polarizing the electronic cloud in relation to the nuclear CCl group, increase the tendency toward replacement of the Cl.

IT 26059-84-7P, 4-Quinazolinol, 2-(2-furyl)-
RL: PREP (Preparation)
(preparation of)

RN 26059-84-7 CAPLUS

CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1950:49306 CAPLUS

DOCUMENT NUMBER: 44:49306

ORIGINAL REFERENCE NO.: 44:9404d-h

TITLE: The utilization of furfural

AUTHOR(S): Andrisano, R.

SOURCE: Bollettino Scientifico della Facolta di Chimica Industriale di Bologna (1949), 7, 58-62
CODEN: BSFCAY; ISSN: 0366-3205

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 43, 7929hi. The following researches are in progress: Et 5(chloromethyl)furoate (I), prepared by chloromethylation of Et furoate, is converted by RONa into Et 5-alkoxymethyl-2-furoates and thence to the 2-furoylacetates, which are condensed with thiourea to give 6-(5-alkoxymethyl-2-furyl)-2-thiouracils that probably exhibit antithyroid activity (C.A. 42, 3411b); I reacts with PhNH2 and substituted anilines to give Et 5-(anilinomethyl)furoates, of possible utility as vulcanization accelerators; I can be reduced to Et 5-methylfuroate (II), and this is saponified to the free acid; I is oxidized with HNO3 to 2,5-furandicarboxylic acid, of which the allyl and glycol diesters have been prepared; II is converted to MeC4H2OCOCH2CO2Et (III); C4H3OCOCH2CO2Et condenses with aromatic amines, ArNH2, in 2 ways, according to the conditions, giving either C4H3OCOCH2CONHAr (IV) or C4H3OC(:NAr) CH2CO2Et (V); III gives the analogous MeC4H2OCOCH2CONHAr (VI) and MeC4H2OC(:NAr)CH2CO2Et; IV can be cyclized to 2-hydroxy-4-furylquinolines; V can be cyclized to 2-furyl-4-hydroxyquinolines that may serve as intermediates in the synthesis of antimalarials; IV is condensed with ArN2Cl to C4H3OCOCH(N:NAr)CONHAr and with (p-C6H4N2Cl)2 to give [

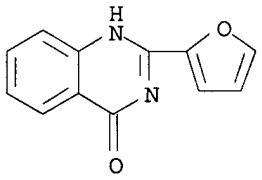
10/ 567,660

C4H3OCOCH(CONHAr)N:NC6H4]2 compds. that are yellow or brown in color and may be used in the fast dyeing of cotton; VI gives similar condensation products; C4H3OC(:NH)OEt is condensed with Me esters of 2-amino-,2-amino-5-methyl-, and 2-amino-4-chlorobenzoic acids to give the corresponding 2-furyl-4-hydroxyquinazolines, which can be converted to the 4-Cl compds. and then condensed with Et2N(CH2)3CHMeNH2 to yield potential antimalarials. No exptl. details are given.

IT 26059-84-7, 4-Quinazolinol, 2-(2-furyl)-
(derivs.)

RN 26059-84-7 CAPLUS

CN 4(1H)-Quinazolinone, 2-(2-furanyl)- (9CI) (CA INDEX NAME)



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L2 14 S L1

L3 205 S L1 FUL

FILE 'CAPLUS' ENTERED AT 17:14:24 ON 10 MAR 2008

L4 43 S L3

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